



REFERENCE: 16/3/3/5/A8/74/3021/23
NEAS REFERENCE: WCP/EIA/AMEND/0000727/2023
DATE OF ISSUE: 13 September 2023

The Municipal Manager
City of Cape Town
Mike Pienaar Boulevard and Voortrekker Road
BELLVILLE
7530

Attention: Mr. Sarel Beets

E-mail: Sarel.Beets@capetown.gov.za

Dear Sir

APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT NO. 107 OF 1998) ("NEMA") AND THE ENVIRONMENTAL IMPACT ASSESSMENT ("EIA") REGULATIONS, 2014 (AS AMENDED) FOR THE PART 2 AMENDMENT TO THE ENVIRONMENTAL AUTHORISATION ISSUED ON 16 FEBRUARY 2023 (REFERENCED: 16/3/3/1/A8/74/3049/22): PROPOSED INSTALLATION AND CONVEYANCE OF AN APPROXIMATELY 3.35KM LONG SEWER PIPELINE ADJACENT TO THE KUILS RIVER, CONNECTING TO THE EXISTING RIETVLEI SEWER PUMP STATION LOCATED ON THE REMAINING EXTENT OF ERF NO. 524, SAREPTA, KUILS RIVER.

1. With reference to the above application, the competent authority hereby notifies you of its decision to **grant** Environmental Authorisation, attached herewith, together with the reasons for the decision.
2. In terms of Regulation 4 of the EIA Regulations, 2014 (as amended), you are instructed to ensure, within 14 days of the date of the Environmental Authorisation, that all registered interested and affected parties are provided with access to and reasons for the decision, and that all registered interested and affected parties are notified of their right to appeal.
3. Your attention is drawn to Chapter 2 of the Appeal Regulations, 2014 (as amended), which prescribes the procedure to be followed in the event of appeals being lodged. This procedure is summarised in the attached Environmental Authorisation.

Yours faithfully

MR. ZAAHIR TOEFY
DIRECTOR: DEVELOPMENT MANAGEMENT (REGION 1)
DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING

CC: (1) Ms. Euronell Visagie (Guillaume Nel Environmental Consultants)
(2) Ms. Maurietta Stewart (City of Cape Town)

E-mail: eg@gnec.co.za
E-mail: maurietta.stewart@capetown.gov.za



REFERENCE: 16/3/3/5/A8/74/3021/23
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AMENDED ENVIRONMENTAL AUTHORISATION

APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT NO. 107 OF 1998) ("NEMA") AND THE ENVIRONMENTAL IMPACT ASSESSMENT ("EIA") REGULATIONS, 2014 (AS AMENDED) FOR THE PART 2 AMENDMENT TO THE ENVIRONMENTAL AUTHORISATION ISSUED ON 16 FEBRUARY 2023 (REFERENCED: 16/3/3/1/A8/74/3049/22): PROPOSED INSTALLATION AND CONVEYANCE OF AN APPROXIMATELY 3.35KM LONG SEWER PIPELINE ADJACENT TO THE KUILS RIVER, CONNECTING TO THE EXISTING RIETVLEI SEWER PUMP STATION LOCATED ON THE REMAINING EXTENT OF ERF NO. 524, SAREPTA, KUILS RIVER.

With reference to your application for the abovementioned, find below the amendment to the Environmental Authorisation (hereinafter referred to as the "Environmental Authorisation") with respect to this application.

ADDENDUM TO ENVIRONMENTAL AUTHORISATION

A. DECISION

By virtue of the powers conferred on it by the NEMA and the EIA Regulations, 2014 (as amended), the competent authority herewith grants the amendment of the Environmental Authorisation issued on 16 February 2023 (Reference No.: 16/3/3/1/A8/74/3049/22).

1. **The activity description under Section B of the Environmental Authorisation issued on 16 February 2023 reads as follows:**

"The proposed development entails the installation of an approximately 3.28km long sewer pipeline adjacent to the Kuils River, connecting to the existing Rietvlei sewer pump station on the Remaining extent of Erf No. 524, Sarepta, Kuils River.

The starting point of the proposed pipeline will be underneath the R300/M23 underpass close to the Stikland industrial area. The pipeline will continue in a south/southeasterly direction adjacent to the Kuils River for approximately 1.65km, before traversing the Kuils River via micro-tunneling at the R102 Bridge located west of the Engen filling station. Thereafter, the pipeline will continue on the western side of the Kuils River until it connects to the existing Rietvlei sewer pump station located in Sarepta.

The first 197m of the pipeline alignment will be by means of micro-tunneling to install the pipeline underneath the M23 underpass. The next approximate 1.376km of the

sewer pipeline alignment will continue along the eastern side of the Kuils River by means of open trench excavation, adjacent to the River as well as an existing sewer pipeline. The width of the proposed open trenching will be approximately 1.84m. The remaining approximate 1.703km will be installed via micro-tunneling for the section that will traverse the Kuils River. The pipeline will be installed via open trenching for the majority of the first half of its length i.e., the northern portion, whilst a trenchless technique via micro-tunneling will be used for the sections of the proposed sewer pipeline that encroach onto and traverse the Kuils and Bottelary Rivers.

The proposed sewer pipeline will consist of various pipeline diameters along its conveyance route as follows:

- Stake value 0m to 197m (Ø630mm by means of micro-tunneling underneath the M23 underpass);
- Stake value 197m to 1573m (Ø750 by means of open trench excavation); and
- Stake value 1573m to 3276m (Ø900 by means of micro-tunneling underneath the Kuils River)".

This is herewith replaced with the following:

The proposed development entails the installation and conveyance of an approximately 3.35km long sewer pipeline adjacent to the Kuils River, connecting to the existing Rietvlei sewer pump station located on the Remaining Extent of Erf No. 524, Sarepta, Kuils River.

The starting point of the proposed pipeline will be underneath the R300/M23 underpass close to the Stikland industrial area and will continue for approximately 29m via open trenching before traversing the R300 via micro-tunneling for approximately 186m. Thereafter, for approximately 840m, the sewer pipeline alignment will continue in a south/southeasterly direction adjacent to the eastern side of the Kuils River by means of open trenching before traversing Pioneer Street via micro-tunneling for approximately 93m. The next approximately 500m of the pipeline will be installed via open trenching towards the R102 Bridge located next to the Engen filling station.

After approximately 1.65km, instead of traversing the Kuils River at the R102 Bridge located next to the Engen filling station, the pipeline will traverse Van Riebeeck Road via micro-tunneling for approximately 61m. The pipeline will continue on the eastern side of the Kuils River and will continue adjacent to the formalised Kuils River section for approximately 167m via open trenching before traversing the Bottelary River via micro-tunneling for approximately 99m. The next approximately 247m of the pipeline will be installed via open trenching until the pipeline reaches a man-made storm water channel. Micro-tunneling will then be used as the installation method and the pipeline will traverse the storm water channel as well as Carinus Street for approximately 155m. The next approximately 856m of pipeline will be installed by means of micro-tunneling and will traverse a railway line, Thayser Road and a man-made storm water channel before finally traversing the Kuils River horizontally to carry the pipeline to the western side of the Kuils River. The remaining approximately 118m of the pipeline will continue on the western side of the banks of the Kuils River via open trenching before connecting to the Rietvlei sewer pump station located in Sarepta.

Servitude agreements will be negotiated as the pipeline will traverse various properties on route to the connection point at the Rietvlei sewer pump station. The

proposed pipeline route will traverse the Kuils River and Bottelary River once via micro-tunneling.

The width of the open trenching will be 2.2m based on a DN 1200mm sewer, since a network of secondary pipelines will tie in with the proposed pipeline to reduce pressure and overload on the current sewage system network in Kuils River. The sewer pipeline will be installed via micro-tunneling where the Kuils River and Bottelary Rivers will be traversed. Micro-tunneling will be used at sections where the pipeline will traverse the Kuils River train track/railway line as well as primary transport roads.

Some of the existing lines will be reconstructed/re-installed during the installation of the new Kuils River line, and some will be new connections of existing lines to the new line. The reconstruction/re-installation and connections will be done via open trenching, except for one under the train track and at Nooiensfontein Road, which will both be installed via Horizontal Directional Drilling.

The proposed bulk sewer pipeline will consist of various pipeline diameters along its conveyance route, as follows:

- 0m to 29m: DN 630mm PVC installed via open trench excavation;
- 29m to 215m: DN 970mm concrete pipe installed via micro-tunneling (R300/M23 underpass crossing);
- 215m to 1055m: DN 900mm concrete pipe installed via open trench excavations;
- 1055m to 1148m: DN 970mm concrete pipe installed via micro-tunneling (Pioneer Road crossing);
- 1148m to 1570m: DN 900mm concrete pipe installed via open trench excavations;
- 1570m to 1647m: DN 1000mm concrete pipe installed via open trench excavations;
- 1647m to 1708m: DN 970mm concrete pipe installed via micro-tunneling (Van Riebeeck Road crossing);
- 1708m to 1875: DN 1000mm concrete pipe installed via open trench excavations;
- 1875m to 1974m: DN 970mm concrete pipe installed via micro-tunneling (channel crossing);
- 1974m to 2221m: DN 1000mm concrete pipe installed via open trench excavations;
- 2221m to 2376m: DN 970mm concrete pipe installed via micro-tunneling;
- 2376m to 3232m: DN 1200mm concrete pipe installed via micro-tunneling; and
- 3232m to 3350m: DN 900mm concrete pipe installed via open trench excavations.

2. The location and description of the route under Section C of the Environmental Authorisation issued on 16 February 2023 reads as follows:

“The pipeline route will traverse various properties situated adjacent to the Kuils River.

The preferred route will traverse the following properties:

Erven 17751; 22164; 15447; 15059; 15096; 15026; 4598; 4692; 2484; RE/922; RE/940; RE/802; RE/804; 3173; RE/805; RE/855; 2305; 2310; 2321; 811; 2323; 2340; 10848; 10845; RE/980; 10843; 2373; 763; RE/525 and RE/524, Kuils River.

The starting point of the proposed pipeline will be under the M23/R300 underpass close to the Stikland Industrial area. For the first section of the sewer pipeline alignment, the pipeline will be located in a corridor between the Kuils River and

residential suburbs before passing the Kuils River Hospital and the Engen filling station at the R102 Bridge. From here, the pipeline will traverse the formalised Kuils River via micro-tunneling. Multiple roads will be traversed as well as a railway line before connecting with the Rietvlei sewer pump station located in Sarepta.

The SG 21-digit codes are:

Erf Number	SG 21-digit code
17751	C06700040001775100000
22164	C06700040002216400000
15447	C06700130001544700000
15059	C06700130001505900000
15096	C06700130001509600000
15026	C06700130001502600000
4598	C06700130000459800000
4692	C06700130000469200000
2484	C06700130000248400000
RE/922	C06700130000092200000
RE/940	C06700130000094000000
RE/802	C06700130000080200000
RE/804	C06700130000080400000
3173	C06700130000317300000
RE/805	C06700130000080500000
RE/855	C06700130000085500000
2305	C06700130000230500000
2310	C06700130000231000000
2321	C06700130000232100000
811	C06700130000081100000
2323	C06700130000232300000
2340	C06700130000234000000
10848	C06700130001084800000
10845	C06700130001084500000
RE/980	C06700130000098000000
10843	C06700130001084300000
2373	C06700130000237300000
763	C06700130000076300000
RE/525	C06700130000052500000
RE/524	C06700130000052400000

Co-ordinates:

Starting point:

Latitude: 33° 54' 25.30" S

Longitude: 18° 40' 17.14" E

Middle point:

Latitude: 33° 55' 14.30" S

Longitude: 18° 40' 32.54" E

End point (Rietvlei pump station):

Latitude: 33° 56' 01.31" S

Longitude: 18° 40' 19.08" E

Refer to Annexure 1: Locality Plan and Annexure 2: Site Plan.

hereinafter referred to as “the route”.

This is herewith replaced with the following:

The pipeline route will traverse various properties situated adjacent to the Kuils River.

The preferred route will traverse the following properties:

Erven 22359; 22160; 17751; 22164; 22361; 9025; 23312; 15447; 16545; 15059; 16546; 15096; 15026; RE/15025; RE/5088; 4598; 4692; 2484; 969; 2366; RE/521; 2634; RE/940; 941; RE/793; RE/802; RE/942; RE/945; 10290; 10286; RE/794; 3705; 800; RE/801; 978; 10849; 10850; RE/980; 2374; 2274; RE/762; 2367; RE/525; RE/524; RE/692; 3252; RE/691; RE/922; 1952 and RE/531, Kuils River.

The starting point of the proposed pipeline will be under the M23/R300 underpass close to the Stikland Industrial area and will end at the Rietvlei sewer pump station in Sarepta where it will connect with the municipal sewer network. The pipeline will traverse various erven, roads, a railway line and the Kuils River and Bottelary River on route to the Rietvlei sewer pump station in Sarepta

The SG 21-digit codes are:

Erf Number	SG 21-digit code
22359	C06700040002235900000
22160	C06700040002216000000
17751	C06700040001775100000
22164	C06700040002216400000
22361	C06700040002236100000
9025	C06700040000902500000
23312	C06700040002331200000
15447	C06700130001544700000
16545	C06700130001654500000
15059	C06700130001505900000
16546	C06700130001654600000
15096	C06700130001509600000
15026	C06700130001502600000
RE/15025	C06700130001502500000
RE/5088	C06700130000508800000
4598	C06700130000459800000
4692	C06700130000469200000
2484	C06700130000248400000
969	C06700130000096900000
2366	C06700130000236600000
RE/521	C06700130000052100000
2634	C06700130000263400000
RE/940	C06700130000094000000
941	C06700130000094100000
RE/793	C06700130000079300000
RE/802	C06700130000080200000
RE/942	C06700130000094200000
RE/945	C06700130000094500000

10290	C06700130001029000000
10286	C06700130001028600000
RE/794	C06700130000079400000
3705	C06700130000370500000
800	C067001300000800000000
RE/801	C06700130000080100000
978	C06700130000097800000
10849	C06700130001084900000
10850	C06700130001085000000
RE/980	C067001300000980000000
2374	C06700130000237400000
2274	C06700130000227400000
RE/762	C06700130000076200000
2367	C06700130000236700000
RE/525	C06700130000052500000
RE/524	C06700130000052400000
RE/692	C06700130000069200000
3252	C06700130000325200000
RE/691	C06700130000069100000
RE/922	C06700130000092200000
1952	C06700130000195200000
RE/531	C06700130000053100000

Co-ordinates:

Starting point:

Latitude: 33° 54' 25.04" S

Longitude: 18° 40' 17.21" E

Middle point:

Latitude: 33° 55' 15.25" S

Longitude: 18° 40' 33.28" E

End point (Rietvlei pump station):

Latitude: 33° 56' 01.41" S

Longitude: 18° 40' 19.03" E

Refer to Annexure 1: Locality Plan and Annexure 2: Site Plan.

hereinafter referred to as "the route".

3. **Condition 10 of the Environmental Authorisation issued on 16 February 2023 reads as follows:**

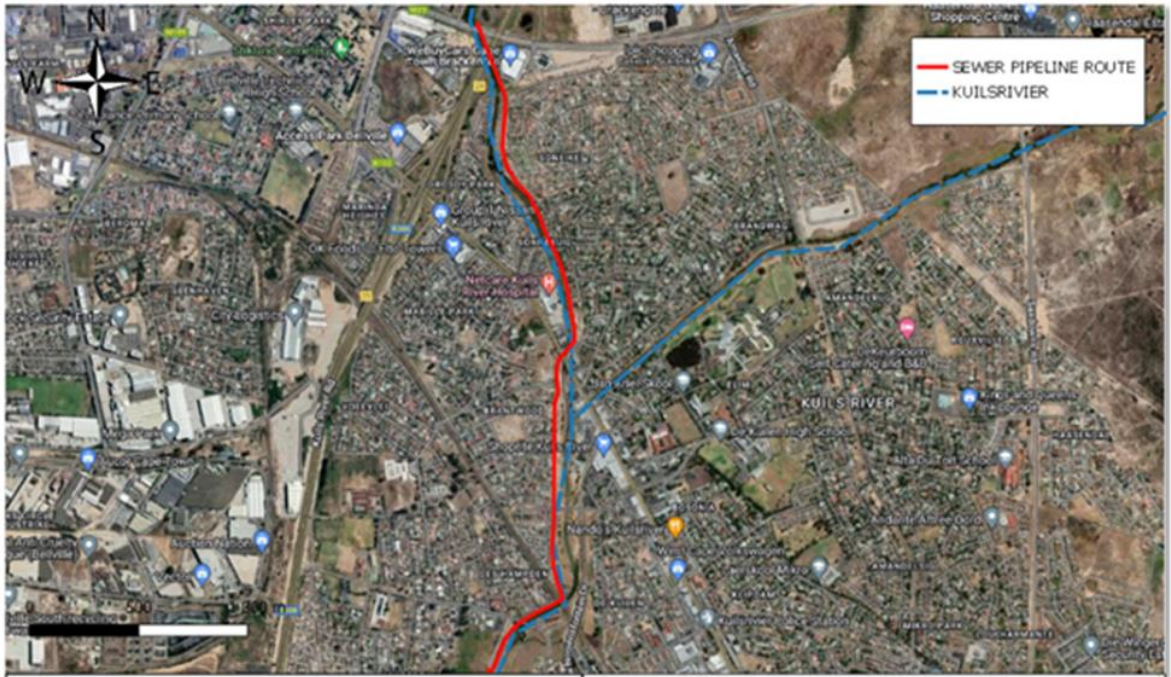
"The draft EMPr dated October 2022 (as compiled by Guillaume Nel Environmental Consultants) and submitted as part of the application for Environmental Authorisation is hereby approved and must be implemented".

This is herewith replaced with the following:

The draft EMPr dated June 2023 (as compiled by Guillaume Nel Environmental Consultants) and submitted as part of the application for the amendment of the Environmental Authorisation is hereby approved and must be implemented.

4. **Annexure 1: Locality Plan of the Environmental Authorisation issued on 16 February 2023 is as follows:**

“ANNEXURE 1: LOCALITY PLAN



First section of the proposed sewer pipeline:

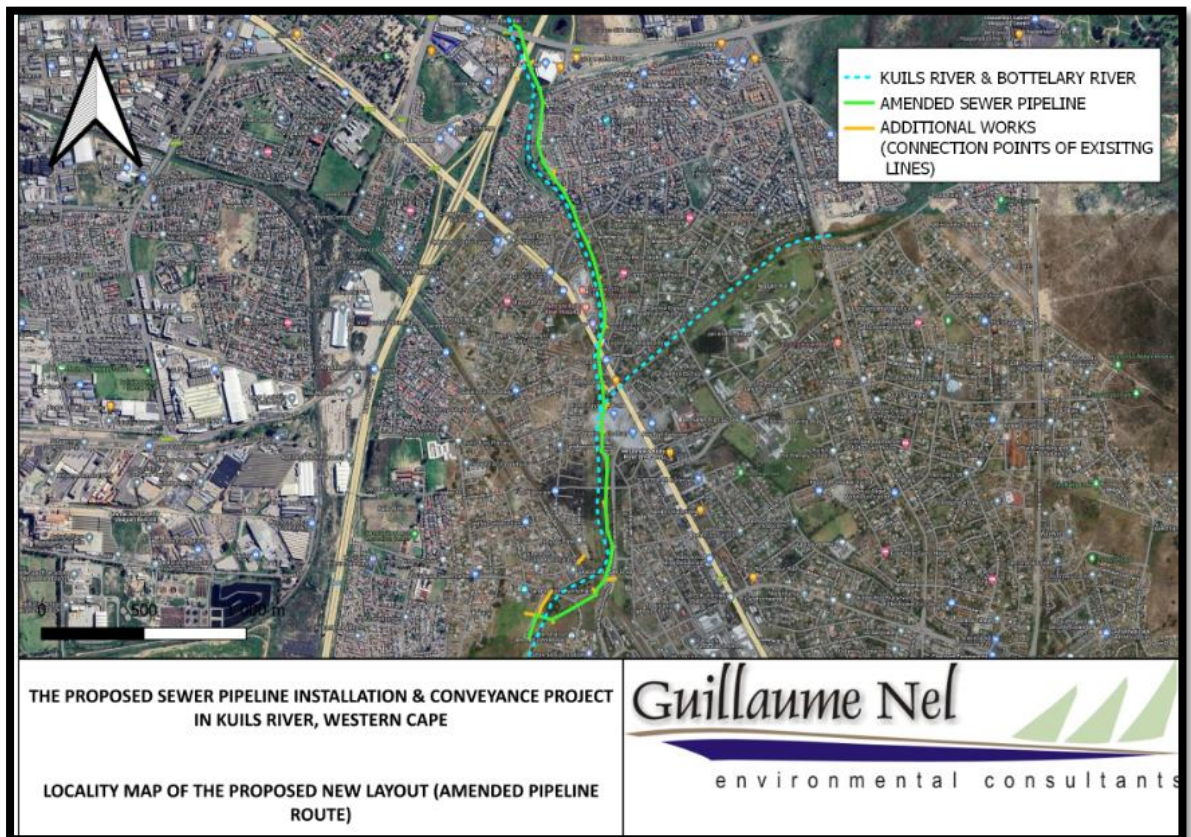


Second section of pipeline route:



This is herewith replaced with the following:

ANNEXURE 1: LOCALITY PLAN



First section of the proposed sewer pipeline:



Second section of the proposed sewer pipeline:



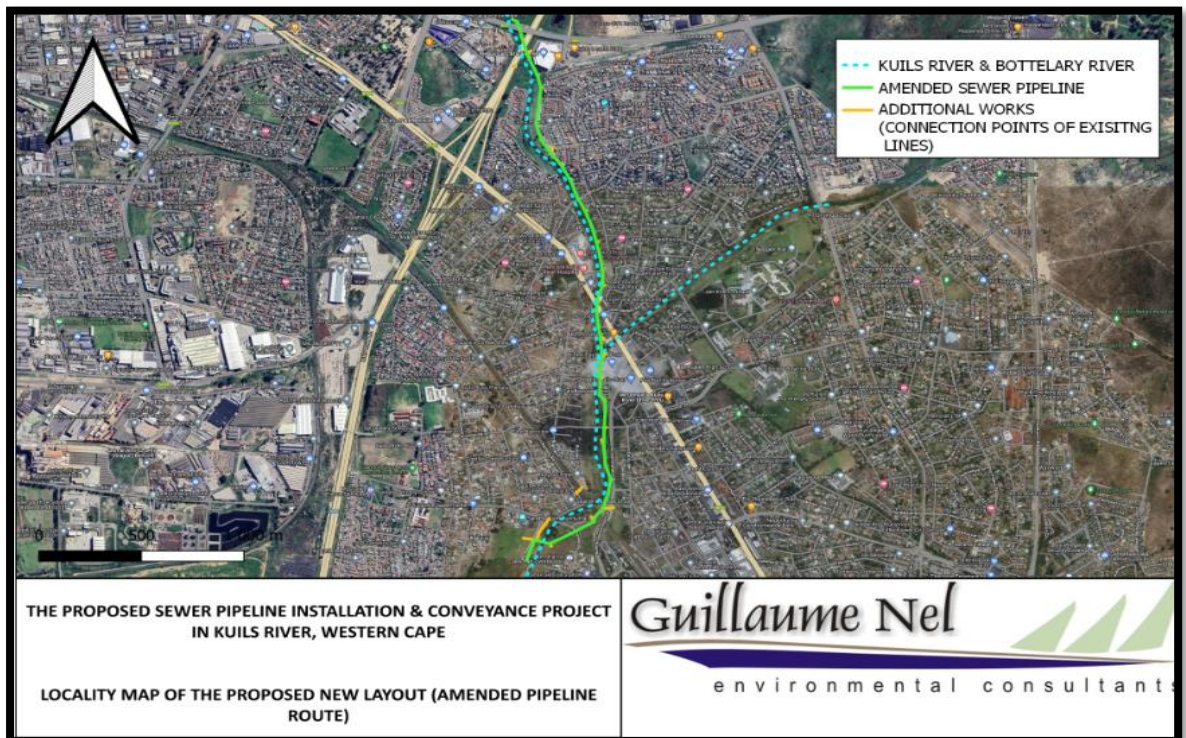
- Annexure 2: Site Plan of the Environmental Authorisation issued on 16 February 2023 is as follows:

“ANNEXURE 2: SITE PLAN



This is herewith replaced with the following:

ANNEXURE 2: SITE PLAN



6. **The description of the preferred alternative under Annexure 3: Reasons for the Decision of the Environmental Authorisation issued on 16 February 2023 reads as follows:**

“Preferred alternative – herewith authorised:

The preferred alternative entails the installation of an approximately 3.28km long sewer pipeline adjacent to the Kuils River, connecting to the existing Rietvlei sewer pump station on the Remaining extent of Erf No. 524, Sarepta, Kuils River.

The starting point of the proposed pipeline will be underneath the R300/M23 underpass close to the Stikland industrial area. The pipeline will continue in a south/southeasterly direction adjacent to the Kuils River for approximately 1.65km, before traversing the Kuils River via micro-tunneling at the R102 Bridge located west of the Engen filling station. Thereafter, the pipeline will continue on the western side of the Kuils River until it connects to the existing Rietvlei sewer pump station located in Sarepta.

The first 197m of the pipeline alignment will be by means of micro-tunneling to install the pipeline underneath the M23 underpass. The next approximate 1.376km of the sewer pipeline alignment will continue along the eastern side of the Kuils River by means of open trench excavation, adjacent to the River as well as an existing sewer pipeline. The width of the proposed open trenching will be approximately 1.84m. The remaining approximate 1.703km will be installed via micro-tunneling for the section that will traverse the Kuils River. The pipeline will be installed via open trenching for the majority of the first half of its length i.e., the northern portion, whilst a trenchless technique via micro-tunneling will be used for the sections of the proposed sewer pipeline that encroach onto and traverse the Kuils and Bottelary Rivers.

The proposed sewer pipeline will consist of various pipeline diameters along its conveyance route as follows:

- Stake value 0m to 197m (Ø630mm by means of micro-tunneling underneath the M23 underpass);
- Stake value 197m to 1573m (Ø750 by means of open trench excavation); and
- Stake value 1573m to 3276m (Ø900 by means of micro-tunneling underneath the Kuils River).

The installation of the proposed sewer pipeline via a trenchless technique (i.e., construction of the sewer pipeline via micro-tunneling) within the delineated extent of the rivers is the preferred option, as it will have the smallest physical footprint”.

This is herewith replaced with the following:

Preferred alternative – herewith authorised:

The preferred alternative entails the installation and conveyance of an approximately 3.35km long sewer pipeline adjacent to the Kuils River, connecting to the existing Rietvlei sewer pump station located on the Remaining Extent of Erf No. 524, Sarepta, Kuils River.

The starting point of the proposed pipeline will be underneath the R300/M23 underpass close to the Stikland industrial area and will continue for approximately 29m via open trenching before traversing the R300 via micro-tunneling for approximately 186m. Thereafter, for approximately 840m, the sewer pipeline alignment will continue in a south/southeasterly direction adjacent to the eastern side

of the Kuils River by means of open trenching before traversing Pioneer Street via micro-tunneling for approximately 93m. The next approximately 500m of the pipeline will be installed via open trenching towards the R102 Bridge located next to the Engen filling station.

After approximately 1.65km, instead of traversing the Kuils River at the R102 Bridge located next to the Engen filling station, the pipeline will traverse Van Riebeeck Road via micro-tunneling for approximately 61m. The pipeline will therefore continue on the eastern side of the Kuils River and will continue adjacent to the formalised Kuils River section for approximately 167m via open trenching before traversing the Bottelary River via micro-tunneling for approximately 99m. The next approximately 247m of the pipeline will be installed via open trenching until the pipeline reaches a man-made storm water channel. Micro-tunneling will then be used as the installation method and will traverse the storm water channel as well as Carinus Street for approximately 155m. The next approximately 856m of pipeline will be installed by means of micro-tunneling and will traverse a railway line, Thayser Road and a man-made storm water channel before finally traversing the Kuils River horizontally to carry the pipeline to the western side of the Kuils River. The remaining approximately 118m of the pipeline will continue on the western side of the Kuils River banks via open trenching before connecting to the Rietvlei sewer pump station located in Sarepta.

Servitude agreements will be negotiated as the pipeline will traverse various properties on route to the connection point at the Rietvlei sewer pump station. The proposed pipeline route will traverse the Kuils River and Bottelary River once via micro-tunneling.

The width of the open trenching will be 2.2m based on a DN 1200mm sewer, since a network of secondary pipelines will tie in with the proposed pipeline. The sewer pipeline will be installed via micro-tunneling where the Kuils River and Bottelary Rivers will be traversed. Micro-tunneling will be used at sections where the pipeline will traverse the Kuils River train track/railway line as well as primary transport roads.

Some of the existing lines will be reconstructed/re-installed during the installation of the new Kuils River line, and some will be new connections of existing lines to the new line. The reconstruction/re-installation and connections will be done via open trenching, except for one under the train track and at Nooiensfontein Road, which will both be installed via Horizontal Directional Drilling.

The proposed bulk sewer pipeline will consist of various pipeline diameters along its conveyance route, as follows:

- 0m to 29m: DN 630mm PVC installed via open trench excavation;
- 29m to 215m: DN 970mm concrete pipe installed via micro-tunneling (R300/M23 underpass crossing);
- 215m to 1055m: DN 900mm concrete pipe installed via open trench excavations;
- 1055m to 1148m: DN 970mm concrete pipe installed via micro-tunneling (Pioneer Road crossing);
- 1148m to 1570m: DN 900mm concrete pipe installed via open trench excavations;
- 1570m to 1647m: DN 1000mm concrete pipe installed via open trench excavations;
- 1647m to 1708m: DN 970mm concrete pipe installed via micro-tunneling (Van Riebeeck Road crossing);
- 1708m to 1875: DN 1000mm concrete pipe installed via open trench excavations;

- 1875m to 1974m: DN 970mm concrete pipe installed via micro-tunneling (channel crossing);
- 1974m to 2221m: DN 1000mm concrete pipe installed via open trench excavations;
- 2221m to 2376m: DN 970mm concrete pipe installed via micro-tunneling;
- 2376m to 3232m: DN 1200mm concrete pipe installed via micro-tunneling; and
- 3232m to 3350m: DN 900mm concrete pipe installed via open trench excavations.

The installation of the proposed sewer pipeline via a trenchless technique (*i.e.*, construction of the sewer pipeline via micro-tunneling) within the delineated extent of the rivers is the preferred option, as it will have the smallest physical footprint.

B. REASONS FOR THE DECISION

In reaching its decision, the competent authority took, *inter alia*, the following into consideration:

- (a) The information contained in the application for amendment as received by the competent authority via electronic mail correspondence on 28 April 2023; the final Amendment Report as received by the competent authority via electronic mail correspondence on 08 June 2023; and the additional information received by the competent authority via electronic mail correspondence on 14 August 2023, respectively.
- (b) The application is for a substantive amendment to the Environmental Authorisation issued on 16 February 2023 in terms of the EIA Regulations, 2014 (as amended).
- (c) No significant negative impacts are expected due to the amendment of the original development proposal. This can be justified as follows:
 - i. The amended pipeline route confines to the same boundaries as the approved route. The specialist assessments that were conducted during the initial environmental process investigated both the preferred and alternative pipeline routes, *i.e.*, both sides of the Kuils River. The alternative pipeline route that was assessed followed the same extent/boundary as the proposed amended pipeline route.
 - ii. The only additional impacts relate to the change in crossing locations and additional scope of works relating to the re-construction/re-installation of connection points to the new pipeline. The potential impacts were re-assessed and considered to have a moderate to low impact.
 - iii. Freshwater impacts:
A Freshwater Impact Assessment Report dated April 2023, was compiled by Freshwater Ecologist Network Consulting (Pty) Ltd., to assess the potential freshwater impacts associated with the proposed amendment.

The Kuils and Bottelary Rivers will be traversed by the proposed sewer pipeline. The proposed sewer pipeline route will be located directly adjacent to the western side of the Kuils River. The proposed sewer pipeline crossing within the Bottelary River will traverse the lower reach of the Bottelary River as it confluences with the Kuils River, west of the R102 crossing. The reaches of both

the Kuils and Bottelary Rivers within this section have been canalised and confined to a concrete channel for the remainder of the proposed sewer pipeline. The proposed sewer pipeline will also traverse several storm water channels which convey surface runoff into the Kuils River.

Some of the storm water channels have formalised concrete channels and some have excavated earth channels. The storm water channels are generally vegetated with species that have proliferated in deposited sediment occurring within these channels, including *Typha capensis* and *Phragmites australis* and alien and invasive plant species such as *Pennisetum clandestinum*. The proposed sewer pipeline upgrades will not traverse any watercourses or storm water channels, however, it will be located very close to the Kuils and Bottelary Rivers due to the required connection to the main proposed sewer pipeline.

Due to the construction of the surrounding road infrastructure and industrial properties, the vegetation structure and composition of the Kuils and Bottelary Rivers are transformed, therefore the extent of natural riparian vegetation for these watercourses is limited. The Kuils River hosts a mix of facultative wetland vegetation species, but also ruderal species such as *Cynodon dactylon* and *Pennisetum clandestinum*, and woody alien invasive plants. The vegetation composition of the Bottelary River consists predominantly of graminoid and herbaceous alien invasive plant species including *Pennisetum clandestinum* and *Rumex* sp.

The Kuils and Bottelary Rivers are considered to be of moderate ecological importance and sensitivity. A large to serious change in ecosystem processes and loss of natural habitat has occurred. Ecosystem services are considered low to very low as a result of decreased species diversity, natural habitat, buffer zone and discharge of treated effluent and storm water runoff from the surrounding urban and industrial areas. The Kuils and Bottelary Rivers are considered to be in a largely to seriously modified ecological condition and of moderate ecological importance and sensitivity.

Existing direct impacts to the hydrology of the Kuils and Bottelary Rivers include channel modification through the realignment and straightening of the active channel into a concrete channel, including formalisation of the river bed and banks for stability and erosion control.

No significant or long-term modifications of the Kuils and Bottelary Rivers are anticipated, since the proposed pipeline crossings will take place along the canalised river reaches which are not considered sensitive. Fragmentation to the rivers is also not anticipated as the footprint of the proposed sewer pipeline will be upon completion of construction activities.

The proposed sewer pipeline and the proposed upgrades, including the removal of vegetation, open trenching directly outside the delineated extent of the Kuils and Bottelary Rivers, and the installation of the proposed sewer pipeline via open trenching or micro tunnelling within the active channel of the Rivers, pose a moderate to low-risk significance to the overall integrity of the Kuils and Bottelary Rivers.

The construction and installation of the proposed sewer pipeline via a trenchless method (micro tunnelling of the pipeline underneath the rivers) poses a low-risk

significance to the overall integrity of the Kuils and Bottelary Rivers and is, therefore, the preferred method of construction from a freshwater management perspective, with the implementation of the recommended mitigation measures. The mitigation measures and recommendations of the specialist have been included in the updated EMPr dated June 2023.

- (d) The environment and the rights and interests of interested and affected parties ("I&APs") are not likely to be affected.
- (e) No new listed activities are triggered by the amended proposal and the competent authority is satisfied that all potential impacts will be mitigated to acceptable levels.
- (f) The remaining conditions contained in the Environmental Authorisation issued on 16 February 2023 remain unchanged and in force.
- (g) A Public Participation Process was conducted for the amendment application, which comprised of the following:
 - Notices were placed at multiple locations along the proposed pipeline route on 26 April 2023;
 - An advertisement was placed in the "Tygerburger" newspaper on 26 April 2023;
 - E-mails were sent on 26 April 2023 to registered I&APs to inform them of the availability of the draft Amendment Report;
 - The Executive Summary and Background Information Documents were hand delivered on 26 April 2023;
 - The draft Amendment Report was placed on the website of Guillaume Nel Environmental Consultants from 26 April 2023 until 29 May 2023; and
 - The draft Amendment Report was made available for comment from 26 April 2023 until 29 May 2023.

At the end of the commenting period, comments were received. The competent authority is satisfied that the comments that were received were adequately responded to.

Authority Consultation:

The following authorities were consulted:

- City of Cape Town;
- Department of Environmental Affairs and Development Planning ("DEA&DP") Directorate: Waste Management;
- DEA&DP Directorate: Pollution & Chemicals Management;
- Western Cape Department of Agriculture;
- CapeNature;
- Western Cape Department of Transport and Public Works;
- Department of Water and Sanitation; and
- Heritage Western Cape.

C. CONDITION

- 1. The applicant must in writing, within 14 (fourteen) calendar days of the date of this decision –
 - 1.1 notify all registered I&APs of –
 - 1.1.1 the outcome of the application;

- 1.1.2 the reasons for the decision;
 - 1.1.3 the date of the decision; and
 - 1.1.4 the date of issue of the decision;
- 1.2 draw the attention of all registered I&APs to the fact that an appeal may be lodged against the decision in terms of the National Appeal Regulations, 2014 (as amended);
- 1.3 draw the attention of all registered I&APs to the manner in which they may access the decision; and
- 1.4 provide the registered I&APs with:
- 1.4.1 the name of the holder (entity) of this Environmental Authorisation,
 - 1.4.2 name of the responsible person for this Environmental Authorisation,
 - 1.4.3 postal address of the holder,
 - 1.4.4 telephonic and fax details of the holder,
 - 1.4.5 e-mail address, if any,
 - 1.4.6 the contact details (postal and/or physical address, contact number, facsimile and e-mail address) of the decision-maker and all registered I&APs in the event that an appeal is lodged in terms of the National Appeal Regulations, 2014 (as amended).

D. APPEALS

Appeals must comply with the provisions contained in the National Appeal Regulations, 2014 (as amended).

1. An appellant (if the holder of the decision) must, within 20 (twenty) calendar days from the date notification of the decision was sent to the holder by the competent authority -
 - 1.1 Submit an appeal in accordance with Regulation 4 of the National Appeal Regulations, 2014 (as amended) to the Appeal Administrator; and
 - 1.2 Submit a copy of the appeal to any registered I&APs, any Organ of State with interest in the matter and the decision-maker *i.e.*, the competent authority that issued the decision.

2. An appellant (if NOT the holder of the decision) must, within 20 (twenty) calendar days from the date the holder of the decision sent notification of the decision to the registered I&APs -
 - 2.1 Submit an appeal in accordance with Regulation 4 of the National Appeal Regulations, 2014 (as amended) to the Appeal Administrator; and
 - 2.2 Submit a copy of the appeal to the holder of the decision, any registered I&AP, any Organ of State with interest in the matter and the decision-maker *i.e.*, the competent authority that issued the decision.

3. The holder of the decision (if not the appellant), the decision-maker that issued the decision, the registered I&AP and the Organ of State must submit their responding statements, if any, to the appeal authority and the appellant within 20 (twenty) calendar days from the date of receipt of the appeal submission.

4. The appeal and the responding statement must be submitted to the address listed below:

By post: Attention: Mr. Marius Venter
Western Cape Ministry of Local Government, Environmental Affairs
and Development Planning
Private Bag X9186
CAPE TOWN
8000

By facsimile: (021) 483 4174; or

By hand: Attention: Mr. Marius Venter (Tel: 021 483 3721)
Room 809
8th Floor Utilitas Building, 1 Dorp Street, Cape Town, 8001

Note: For purposes of electronic database management, you are also requested to submit electronic copies (Microsoft Word format) of the appeal, responding statement and any supporting documents to the Appeal Authority to the address listed above and/ or via e-mail to DEADP.Appeals@westerncape.gov.za.

5. A prescribed appeal form as well as assistance regarding the appeal processes is obtainable from Appeal Authority at: Tel. (021) 483 3721, E-mail DEADP.Appeals@westerncape.gov.za or URL <http://www.westerncape.gov.za/eadp>.

E. DISCLAIMER

The Western Cape Government, the Local Authority, committees or any other public authority or organisation appointed in terms of the conditions of this environmental authorisation shall not be responsible for any damages or losses suffered by the holder, developer or his/her successor in any instance where construction or operation subsequent to construction is temporarily or permanently stopped for reasons of non-compliance with the conditions as set out herein or any other subsequent document or legal action emanating from this decision.

Your interest in the future of our environment is appreciated.

Yours faithfully

MR. ZAAHIR TOEFY
DIRECTOR: DEVELOPMENT MANAGEMENT (REGION 1)
DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING

DATE OF DECISION: 13 SEPTEMBER 2023

CC: (1) Ms. Euonell Visagie (Guillaume Nel Environmental Consultants)
(2) Ms. Maurietta Stewart (City of Cape Town)

E-mail: eg@gnec.co.za
E-mail: maurietta.stewart@capetown.gov.za

FOR OFFICIAL USE ONLY:

EIA REFERENCE NUMBER: 16/3/3/5/A8/74/3021/23

NEAS EIA REFERENCE NUMBER: WCP/EIA/AMEND/0000727/2023