

Ms Thuledu Ntshingila
EON Consulting
PO Box 123897
VORNA VALLEY
1686

Dear Ms Ntshingila

PROPOSED CONSTRUCTION OF A BULK WATER SUPPLY PIPELINE FOR R21 CORRIDOR AND SURROUNDING AREAS – PIPELINE EXTENSION TO 9TH ROAD, BREDELL AH, KEMPTON PARK, GAUTENG

Your Background Information Document with reference Gaut: 002/09-10/N00294 dated 23 March 2015 has reference.

Transnet Pipelines (ex-Petronet), a division of Transnet SOC Limited, has no objection in principle to the proposed bulk water supply pipeline crossing and running parallel to the Ø323,8mm pipeline within Transnet's 6m wide pipeline servitudes as indicated on your Bredell AH/Pomona Google map, subject to compliance to our standard crossing conditions and requirements (attached). Our pipeline will be affected along First Road, 3rd Road and Pomona Road in Bredell AH. We have included Google Maps depicting our pipeline route for your information and reference.

Our pipelines are protected against corrosion by Cathodic Protection (CP) system. Steel pipelines (equal to or greater than Ø100mm) crossing or running parallel with our pipelines shall comply with CP requirements stipulated below.

- CP test box(es) shall be installed at your own cost if you pipeline crosses or runs parallel to our pipelines.
- The number of CP test box(es) shall be decided by our CP personnel in charge of that area.
- If however, there is an existing test box(es) within the crossing location, a technical evaluation will be carried out by our CP personnel to determine if you may be connected.

This authority is valid for 24 months from the date of this letter. If this proposal has not been actioned within the specified time frame, an extension of time must be requested 2 months before the validity period expires.

A division of
Transnet SOC Ltd
Registration Number
1990/000900/30

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Group Company Secretary: ANC Ceba

CONDITIONS

Prior to commencement of the work it is required that a representative of Transnet Pipelines be present to indicate the position of the pipelines and to undertake any work on Transnet's pipeline that may be necessary.

In this connection the **Servitude Supervisor, Mr Zebulon Maroga must be contacted at (011) 978 2687 or 083 283 5837** at least 14 days before the date on which you wish to commence work in the vicinity of the pipeline.

Arrangements will also be made to visit the site periodically whilst the work is in progress. Should the work be undertaken without Transnet Pipelines' representative being contacted as mentioned above, Transnet Pipelines reserves the right to request that you expose the pipeline at your own cost in order that an examination can be made for possible damage.

The attached standard conditions and requirements for underground services must be complied with.

An Excavation Permit shall be issued by Transnet Pipelines' Servitude Supervisor to the competent person of the applicant's Contractor, should excavation work be required within or in close proximity of Transnet Pipelines' servitudes.

Heavy plant or mechanical driven equipment (for example, excavator) shall not be used in the pipeline servitude. All excavations must be done by hand.

It is imperative that our representative must be contacted before work commencement to determine our pipeline levels and also assist you with our pipeline related information. It is also important that our representative must witness and approve all the crossings/works. Please be informed that in the event of damage of our pipelines, repair costs will be to your account.

CATHODIC PROTECTION

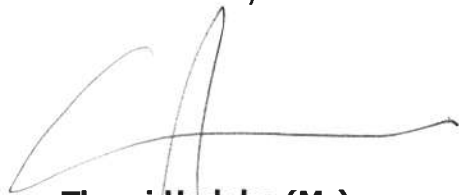
1. A test box shall be installed where our services cross. Our CP personnel shall be consulted to decide whether more than one test box should be installed where our services cross or run parallel for a distance. Exposure of our pipeline where a test box must be installed shall be carried out by the applicant. The cost for Transnet Pipelines' portion of the work to supply and install a test point would amount to R11, 400.00 which includes R1, 400.00 VAT (VAT REG: 4720 103177). This amount is required prior to work proceeding, please. Test box shall be installed where services cross or run parallel for a distance and where the CP Manager decides one should be installed.
2. Any test leads that are affixed to Transnet's pipelines must be done using the thermic weld (cadweld) method with a charge not exceeding 16 grams. If difficulty is experienced when welding 35mm² wire to the pipeline, the cores can be separated (crow-footed) and two welds made for each 35mm² wire or four wires of 16mm² each can be used instead.
3. Any cross-bond to Transnet pipelines will only be connected subject to interference results. It will not be connected unless necessary and your pipe(s) have got its own adequate CP.

4. All bonds shall be done via an interconnection between Transnet Pipelines test point and your pipe's test point by means of two red wires of 35mm² (or 4 x 16mm²) size and not via a direct connection from Transnet directly into your pipes test point.
5. The Transnet Pipelines' CP personnel shall approve repairs to pipeline and cable coating that is carried out by Contractor.
6. Repairs on Transnet pipelines coating shall comply with Transnet Pipelines' wrapping specifications.
7. Interference tests shall be carried out when your pipe CP system is commissioned and only after this would a decision be made regarding any permanent cross-bonds.
8. If you need clarification with the above or need more information, please contact **Transnet Pipelines' CP Manager, Mr Chris Downs at 083 284 0959**. His e-mail address is: chris.downs@transnet.net

Should you need more information with regard to preferred protection of our pipelines, please contact Transnet Pipelines Servitude Manager, Mr Jeff Scrooby at (031) 361 1343 and/or 083 284 1078. His e-mail address is: jeff.scrooby@transnet.net

On completion of the work you are required to return a copy of this letter to our office, duly endorsed and signed by your site representative as well as Transnet Pipeline's representative that the work was satisfactorily completed and conditions adhered to.

Yours Sincerely



Thami Hadebe (Mr)
Servitude Management
 Date: 25 August 2015

SIGNATURE

DATE

APPLICANT :.....

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SERVITUDE SUPERVISOR :.....

.....

***Transnet Pipelines Standard Crossing Conditions and Requirements
For Underground Services (Cables, Pipes, etc.)***

1. The service/s shall cross below the pipeline/s with a minimum clearance of 500mm. This level must be maintained for a minimum distance of 3m on either side of the centre line of the pipeline/outermost pipelines.
2. Where the service/s run/s parallel to the pipeline/s it/they shall not encroach upon Transnet's pipeline servitude/s.
3. No manholes or any other permanent structure shall be erected within the pipeline servitude/s.
4. It is preferred that no joints in a service shall be situated within the pipeline servitude/s. Should this, however, not be possible the joints shall be placed such that they are equidistant from the centre line of the pipeline/outermost pipelines.
5. NO BLASTING IS ALLOWED WITHIN A PIPELINE SERVITUDE. Application to carry out blasting within 500m of a pipeline must be made to this office in writing in terms of paragraph 17.1, chapter 10 of the regulations embodied in the Explosives Act and Regulations (Act 26 of 1956) as amended.
6. Excavation and backfilling within the area of the pipeline servitude/s shall be undertaken by and at the applicant's cost. Such work must be undertaken by hand without the use of mechanical or power equipment.

All excavation work to be carried out within Transnet's pipeline servitude/s will comply with the OHS Act (Act 85 of 1993) and SABS 1200 D : Earthworks specification.

7. In backfilling the excavation the applicant shall provide a minimum of 150mm of selected soft padding around the pipeline/s where it/they was/were exposed. The padding must be properly compacted, in layers, by hand.

This padding sand must meet with the approval of Transnet's representative on site. It must have a pH value of 5,5 or higher and texture which will not cake when drying out. The diameter of the largest particle of sand must not be greater than 1,5mm.

Examples of padding sand which have been used in the past, amongst others, include the following:

- i) plaster sand
- ii) washed Umgeni River sand
- iii) suitably leached mine sand

It should, however, be noted that crusher dust is not acceptable
No backfilling may be carried out unless authorised by Transnet's representative.

8. The pipeline/s shall not be left exposed unnecessarily.
9. All fragile services such as PVC pipes, earthenware, pitch fibre pipes and cables laid within the pipeline servitude/s shall be protected with concrete or similar protective slabs laid over them for a distance of 3m on either side of the centre line of the pipeline/outermost pipelines.
10. In the interest of safety to the applicants service it is recommended that the route of his service at the point/s of crossing be indicated by 6 metres of hazard tape being placed 600 mm below the ground and/or that the actual point/s of crossing be indicated by 3 (three) permanent and clearly visible markers. These markers should be provided and maintained by and at the applicants' cost.
11. All steel pipes and cables crossing the pipeline/s shall be suitably wrapped or sheathed with an acceptable anti-electrolysis insulating covering for the full width of the pipeline servitude/s.

It is, however, recommended that in your own interest this protection be extended for a minimum distance of 30m on either side of Transnet's pipeline/s measured perpendicular to its axis/their axes.

All steel pipes 100mm diameter or larger must have cross bonding facilities installed. This means that the applicant will supply a test point connected to their pipe and a minimum of two red PVC insulated flexible test leads of 35mm² between the applicants test point and Transnet Pipelines test point.

Where pipelines run parallel to one another with a separation distance of 50m and less (refer to clause 2), test points will be installed where the pipelines converge and diverge. If the pipelines run parallel for longer distances, a cross bond test point will be installed every 500m.

This is to enable independent the monitoring of possible electrolytic interaction between pipeline/s.

All costs incurred will be to the applicant's account. Where applicable, quotations will be furnished on request.

13. Should authorisation be granted that work may proceed, Transnet's representative must be contacted prior to any work being undertaken within Transnet's pipeline servitude/s. Details of contact person will be furnished when application is made to carry out work.
14. Transnet shall not be liable for any damage, including consequential loss or damage whether direct or indirect which might be caused to the applicant's service during normal operations, routine maintenance and repairs to the pipeline/s.
15. a) The APPLICANT shall and hereby does indemnify TRANSNET against -
 - i) any damage to TRANSNET's own property, whether movable or immovable, including any consequential damage directly flowing from physical damage to any such property;
 - ii) liability in respect of any damage to the property, whether movable or immovable of the APPLICANT or third parties;
 - iii) liability in respect of the death of or injury to any employees of TRANSNET or the APPLICANT or any third party;
 - iv) any legal costs or expenses reasonably incurred in connection with claims or actions arising out of any of the foregoing;

whenever such damage, injury or death is due to or arises out of the construction, installation or existence of the WORKS or any portion thereof, or the use thereof by the APPLICANT, provided that the APPLICANT shall incur no liability for any damage, injury or death which is due to wilful misconduct or gross negligence on the part of TRANSNET or any of its employees.
- b) TRANSNET shall notify the APPLICANT forthwith of the occurrence of any damage or the receipt of any claim or damage for or against which the APPLICANT is prima facie liable to indemnify TRANSNET in terms of paragraph (a) of the clause and shall, in respect of such claim or demand abide by the directions of the APPLICANT as to whether and on what terms it shall be settled, compromised or contested, it being understood and agreed that whatever action may be taken by TRANSNET pursuant to such directions of the APPLICANT shall be at the APPLICANT's risk and expense.
16. These conditions only apply to construction of the applicant's service across Transnet's pipeline servitude/s and do not grant you the right to do any excavations in future for repair or maintenance purposes. Should such future excavations within the servitude area/s be necessary permission will have to be requested timeously from this office. In cases of emergency, this office or Transnet's representative as mentioned above, may be contacted telephonically for such permission.