



Transnet Pipelines

Contract Number: TPL/2023/05/0004/30876/RFP

Description of Service: Provision of Ground Water and Soil Contamination Assessment and Drinking Water Testing at All Transnet Pipelines Facilities and the Pipeline Network on an “as and when required basis” for a period of three (3) Years

PART C3: SCOPE OF SERVICES

Document reference	Title	No of page
C3.1	<i>Employer’s Works Information</i>	14

SECTION 1

1 Procurement

1.1 Code of Conduct

NEC3 CONTRACT



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Transnet aims to achieve the best value for money when buying or selling goods and obtaining services. This however must be done in an open and fair manner that supports and drives a competitive economy. Underpinning our process are several acts and policies that any supplier dealing with Transnet must understand and support. These are:

- The Transnet Procurement Procedures Manual (PPM);
- Section 217 of the Constitution - the five pillars of Public PSCM (Procurement and Supply Chain Management): fair, equitable, transparent, competitive and cost effective;
- The Public Finance Management Act (PFMA);
- The Broad Based Black Economic Empowerment Act (B-BBEE); and
- The Anti-Corruption Act.

This code of conduct has been included in this contract to formally apprise Transnet Suppliers of Transnet's expectations regarding behaviour and conduct of it's Suppliers.

Prohibition of Bribes, Kickbacks, Unlawful Payments, and Other Corrupt Practices

Transnet is in the process of transforming itself into a self-sustaining State Owned Enterprise, actively competing in the logistics industry. Our aim is to become a world class, profitable, logistics organisation. As such, our transformation is focused on adopting a performance culture and to adopt behaviours that will enable this transformation.

1. *Transnet will not participate in corrupt practices and therefore expects its suppliers to act in a similar manner.*
 - Transnet and its employees will follow the laws of this country and keep accurate business records that reflect actual transactions with and payments to our suppliers.
 - Employees must not accept or request money or anything of value, directly or indirectly, to:
 - Illegally influence their judgement or conduct or to ensure the desired outcome of a sourcing activity;
 - Win or retain business or to influence any act or decision of any decision stakeholders involved in sourcing decisions; or
 - Gain an improper advantage.
 - There may be times when a supplier is confronted with fraudulent or corrupt behaviour of Transnet employees. We expect our Suppliers to use our “Tip-offs Anonymous” Hot line to report these acts. (0800 003 056).
2. *Transnet is firmly committed to the ideas of free and competitive enterprise.*
 - Suppliers are expected to comply with all applicable laws and regulations regarding fair competition and antitrust.
 - Transnet does not engage with non-value adding agents or representatives solely for the purpose of increasing B-BBEE spend (fronting)
3. *Transnet's relationship with suppliers requires us to clearly define requirements, exchange information and share mutual benefits.*
 - Generally, Suppliers have their own business standards and regulations. Although Transnet cannot control the actions of our suppliers, we will not tolerate any illegal activities. These include, but are not limited to:
 - Misrepresentation of their product (origin of manufacture, specifications, intellectual property rights, etc);
 - Collusion;
 - Failure to disclose accurate information required during the sourcing activity (ownership, financial situation, B-BBEE status, etc.);
 - Corrupt activities listed above; and
 - Harassment, intimidation or other aggressive actions towards Transnet employees.



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- Suppliers must be evaluated and approved before any materials, components, products or services are purchased from them. Rigorous due diligence is conducted and the supplier is expected to participate in an honest and straight forward manner.
- Suppliers must record and report facts accurately, honestly and objectively. Financial records must be accurate in all material respects.

Conflicts of Interest

1. *A conflict of interest arises when personal interests or activities influence (or appear to influence) the ability to act in the best interests of Transnet.*
 - Doing business with family members
 - Having a financial interest in another company in our industry

1.2 The Contractor's Invoices

- 1.2.1 When the *Project Manager* certifies payment following an assessment date, the *Contractor* complies with the *Employer's* procedure for invoice submission.
- 1.2.2 The invoice must correspond to the *Project Manager's* assessment of the amount due to the *Contractor* as stated in the payment certificate.
- 1.2.3 The invoice states the following:
 - Invoice addressed to Transnet SOC Ltd;
 - Transnet SOC Limited's VAT No: 4720103177;
 - Invoice number;
 - The *Contractor's* VAT Number; and
 - The Contract number
 The invoice contains the supporting detail.
- 1.2.4 The invoice is presented either by post or by hand delivery.
- 1.2.5 Invoices submitted by post are addressed to:
 - Transnet Pipelines
 - PO Box 3113
 - Durban
 - 4001
- 1.2.6 Invoices submitted by hand are presented to:
 - Transnet Pipelines
 - 202 Anton Lembede Street
 - Durban
 For the attention of Sebenzile Rukidi, Senior Contract Manager, Transnet Pipelines. Invoices to be submitted by the 21st of the relevant month and must be attached to the relevant month end statement.
- 1.2.7 The invoice is presented as an original.

SECTION 2

1. INTRODUCTION



Transnet Pipelines

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Description of Service: Provision of Ground Water and Soil Contamination Assessment and Drinking Water Testing at All Transnet Pipelines Facilities and the Pipeline Network on an "as and when required basis" for a period of three (3) Years

Transnet Pipelines (TPL) manages and operates a pipeline network and the associated infrastructure that transports crude oil, aviation turbine fuel (Avtur), petrol and diesel between Durban and Johannesburg. TPL has a number of operational facilities (depots, pumpstations and workshops) and a pipeline network (Avtur, multiproducts, gas) in the following provinces: Kwa-Zulu Natal, Gauteng, Free State, Mpumalanga and North West. Due to the nature of TPL business (i.e. handling of petroleum products), these sites are vulnerable to contamination due to operational spillages that may have occurred over time.

TPL facilities include the following:

<u>Facility</u>	<u>Address</u>	<u>Co-ordinates</u>
Jameson Park Terminal	Off R42 & Poortjie Road (to Nigel), Heidelberg	28.4252506 -26.4725744
Villiers	Cornelia, Cornelia Dustrict, Nemandskraal, Farm Road	28.8617894 -27.0912165
Langlaagte	42 Main Reef Road, Industria, Langlaagte	27.97527025 -26.20491863
Waltoo	274 Alwyn Street, Waltloo, Pretoria	28.31505693 -25.72583092
Alrode Depot	35 Garfield Road, Alrode, Alberton	28.11996991 -26.29804068
Tarlton Depot and the Intermixture Refractionator Plant (IRP)	Corner of Rustenburg & Ventersdorp Road (R24/N14), Tarlton	27.64046629 -26.07937652
Rustenburg	6 Escom Street, Rustenburg	27.25694813 -25.67364687
Airport	90 Springbok/ Jones Road, Jet Park, Boksburg	28.23846310 -26.16579451
Sasolburg	Corner Henry & Berguis Street, Sasolburg	27.85072616 -26.82585624
Bethlehem	Joubert Street, Morelig, Bethlehem	28.29819145 -28.22947908
Kroonstad Operations	No 3, 1 st Street, Gunhill,	27.22740723 -27.67595718
Magdala	Edinville RD (R34), Magdala	27.31455978 -27.61600858



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Coalbrook	Corner Jan Haak Road & Main Entrance Natref Gas, Sasolburg	27.85702586 -26.79728718
Wilge	Road S159, Frankfort- Tweefort, Substation, Wilge Rivier	28.39002936 -27.22942872
Meyerton	Off Bloemendale Road, Meyerton	28.11481032 -26.57814435
Klerksdorp	9A Mahogany Avenue, Klerksdorp Industria, Klerksdorp	26.66351275 -26.89745511
Kendal Depot	Road to Hooglandboerdey adj Alpha Mine, Kendal	28.96949958 -26.00811325
Witbank Depot	9 Schonland Drive, Ferrobank, Witbank	29.16643836 -25.86294002
Secunda Depot	Behind Sasol, Brandspruit Mine, Secunda	29.14369479 -26.58960740
Twini Pump Station	Umbogintwini, off Moss Kolnick Drive	30°01'42.0"S 30°52'50.8"E
Island View Terminal	Cutler Complex, 1 Bayhead Road, Bayhead	29°53'24.3456"S 31°01'27.4492"E
Mngeni Pump Station	6 Stockville Road, Mahogany Ridge, Westmead	29°49'21.3795"S 30°48'35.8338"E
Hilltop Pump Station	Copesville, off the P25	29°33'04.3"S 30°26'57.5"E
Durban Pump Station (Fynnlans)	Corner of Abardan & Sumatra Road, Island View, Durban	29°53'24.3456"S 31°01'27.4492"E
Hillcrest Pump Station	43 Shongweni road, hillcrest	29°47'37.7862"S 30°45'44.9909"E
Duzi Pump Station	Otto Bluff Road, Pietermaritzburg	29°31'57.8314"S 30°22'18.0984"E
Howick Pump Station	Old Main Road, Howick	29°28'37.8361"S 30°11'40.4939"E
Moorriver Pump Station	Gravel Road off the R103, Moorriver	29°09'28.7017"S 30°01'33.3659"E
Ladysmith Depot	7 Hamilton Road, Ladysmith	S 28.32.350 E 29.47.582



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Pretoria West	117 Industrial Road, Pretoria	28.13978234 -25.76352965
Newcastle	56 Marconi Street, Newcastle	29.99436357 -27.74070103
Quagga	Farm Road (P213)	29.75147325 -27.50850757
Mnambithi (PS 5)	un-named road off R600, on-farm Kranskloof 13091, Ladysmith	29.6130796 -28.6157813
Fort Mistake	off N11 Ladysmith-Newcastle	29.96273960 -28.18590814
Van Reenen	District Rd D284	29.40581537 -28.38419905
Warden	Harrismith, Harrismith district, Rondavel 1674, Farm Road	29.1532318 -27.8283026
Elardus Park	Plot R100 (M75] Boeing Rd, Elardus Park,	28.25507891 -25.82356725

2. SCOPE OF WORK

The appointment of a service provider to conduct ongoing ground water and soil monitoring at TPL facilities situated in Free State, Gauteng, Mpumalanga, KwaZulu-Natal, and North West provinces, on an as and when required for a period of three years. The service provider will conduct ground water and/ or soil monitoring as per the programme detailed in Annexure 1 or permits requirements.

TPL has been undertaking the ongoing ground water and/ or soil monitoring in various sites as a duty of care. This activity is intended to determine the status quo of ground water and/ or soil and to put interventions where areas of concerns has been identified.

The activities to be undertaken are as follows:

- Review the existing ground water and/ or soil monitoring reports for all sites, excluding Airport, Pretoria West, Island View Terminal, Meyerton, Wilge, Warden, Duzi Pump Station, Villiers, Hilltop (PS 3) Pump Station, Twini and Magdala

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- Undertake the ground water and soil monitoring of all sites listed in Annexure 2 as per the schedule in the Annexure 1 using the existing monitoring wells onsite.
- Conduct soil assessment as per norms and standards for the remediation of contaminated land and soil quality, under section 7(2)(d)) of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008).
- Determine the nature, extent and significance of hydrocarbon contamination present in groundwater.
- Measure free phase products within the monitoring wells.
- Develop a site conceptual model taking into account the knowledge concerning source, pathways and receptors.
- Undertake a quantitative risk-based contamination assessment of the site taking all potential receptors into account.
- Provide practical and objective recommendations with targets to improve the site conditions.
- Provide reports with recommendations for remedial actions to be undertaken based on scientific evidence.
- Undertake soil vapour survey to delineate vapour phase hydrocarbon plume and to confirm the lateral and vertical extent of the contamination plume.
- Use accredited laboratories for sample analyses, proof of SANAS accreditation must be given to TPL.
- Undertake soil and groundwater sampling in line with the requirements of the site as stipulated in Annexure 1 or as required by TPL.
- Undertake borehole yield test for sites listed in Annexure 3 as an when requested by TPL.
- Conduct drinking water quality test of all sites with drinking water boreholes as listed in Annexure 3 and any other TPL facility as and when requested by TPL.
- Drinking laboratory results must be compared with SANS 241: 2015 Drinking Water Standards.
- A report with recommendations to be undertaken must be given to TPL.
- Install monitoring wells at Airport, Pretoria West, Island View Terminal, Meyerton, Wilge, Warden, Duzi Pump Station, Villiers, Hilltop (PS 3) Pump Station and Magdala and any other TPL site on an as and when required.
- Undertake hydrocensus to identify possible drinking water boreholes within the 1 kilometer radius from the TPL site on an as and when required.
- Attend meetings as and when requested by TPL.
- Undertake ground water monitoring as and when requested by TPL for any additional work as deemed necessary by TPL.

3. Deliverables

- Electronic copies of reports, Ms Word and Adobe as required for all work done on site.



- Ground water and soil monitoring reports to be submitted after each monitoring event. Reports should include data interpretation and recommendations for remedial actions to be undertaken based on scientific evidence. Ground water and soil monitoring reports should include, but are not limited to the following:
 - **Ground water**
 - Screening for GRO, DRO, PAHs
 - BTEXMN
 - C7-C9; C10-C14; and C15-C36
 - Banded TPHS C10-C14
 - VOCs
 - SVOCs
 - JET Fuel/AVGAS
 - TOG
 - Total Organic Carbon
 - Fingerprinting of Free phase
 - **Soil**
 - Cadmium- mg/kg
 - Chromium (III)- mg/kg
 - Chromium (IV)- mg/kg
 - Cobalt- mg/kg
 - Copper- mg/kg
 - Lead- mg/kg
 - Manganese- mg/kg
 - Mercury- mg/kg
 - Nickel- mg/kg
 - Vanadium- mg/kg
 - Arsenic
 - Zinc- mg/kg
 - C7-C9- mg/kg
 - C10-C14- mg/kg
 - C15-C36- mg/kg
 - Benzene- mg/kg
 - Toluene- mg/kg
 - Ethylbenzene- mg/kg
 - Xylenes- mg/kg
 - Naphalene- mg/kg
 - Pyrene- mg/kg
 - Benzo(a)pyrene
 - MTBE- mg/kg



- Carbon Tetrachloride- mg/kg
 - Chlorobenzene- mg/kg
 - Chloroform- mg/kg
 - 2 Chlorophenol- mg/kg
 - 1,2 Dichlorobenzene- mg/kg
 - 1,4 Dichlorobenzene- mg/kg
 - 1,2 Dichloroethane- mg/kg
 - 1,1 Dichloroethene- mg/kg
 - 1,2 Dichloroethene- mg/kg
 - Trichlorobenzenes (total)- mg/kg
 - Nitrobenzene- mg/kg
 - 1,1,2,2 Tetrachloroethane- mg/kg
 - Trichloroethene
 - 2,4,6 Trichlorophenol- mg/kg
 - Vinyl Chloride- mg/kg
 - PCBs- mg/kg
 - Cyanide- mg/kg
 - Chlorides- mg/kg
 - Fluorides- mg/kg
 - Nitrates-nitrite- mg/kg
 - Sulphates- mg/kg
 - JET Fuel/AVGAS
 - TOG
- Drinking water quality monitoring reports to be submitted after each monitoring event. Reports should include data interpretation and recommendations to be undertaken based on scientific evidence. Drinking water reports should include, but are not limited to the following:
 - pH
 - Colour
 - Turbidity
 - Conductivity
 - Chemical Oxygen Demand
 - Calcium as Ca
 - Chloride as Cl
 - Fluoride as F

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- Magnesium as Mg
 - Nitrate / Nitrite as N
 - Sodium as Na
 - Sulphate as SO₄
 - Total Alkalinity as CaCO₃
 - Total Hardness as CaCO₃
 - Copper as Cu
 - Lead as Pb
 - Iron as Fe
 - Manganese as Mn
 - E. Coli
 - Total Coliforms
- All reporting requirements as required by TPL and authorities.
 - Provide trends per site as per the monitoring programme.
 - Attend meetings as and when requested by TPL.

4. Safety, Health and Environmental Requirements

The service provider shall at all times comply with Safety, Health and Environmental Requirements prescribed by law and Transnet Contactor Management Procedure as they may apply to the services. The service provider shall comply with the provisions of OHS Act and Construction Regulations. The service provider performs duties of the employer, and is in every respect responsible for compliance with the provisions of the act. The service provider will be responsible for the safety, health and environmental rules that TPL may require to be implemented. The service provider shall ensure that no employees or persons working on his/her behalf are allowed to enter any remediation site, unless that employee or person has undergone safety, health and environmental induction pertaining to the hazards prevalent to the site at the time of entry. The service provider shall ensure that all employees working on site have valid medical certificates of fitness specific to the construction work to be performed and issued by an occupational health practitioner.



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ANNEXURE 1: MONITORING PROGRAMME

SITES	FREQUENCY
Tarlton	Quarterly
Langlaagte	Bi-annual
Alrode	Bi-annual
Coalbrook	Quarterly
Jameson Park Terminal	Quarterly
Kendal	Bi-Annual
Witbank	Bi-annual
Waltloo	Bi- annual
Klerksdorp	Quarterly
Kroonstad	Quarterly/ As and when required
Secunda	Bi-annual
Sasolburg	Quarterly
Howick	Bi-annual
Hillcrest	Bi-annual
Durban	Bi-annual
Mngeni	Bi-annual
Newcastle	Annual
Mooi River	Annual
Quagga	Annual
Fort Mistake	Annual
Ladysmith	Annual
Airport	Annual
Rustenburg	Annual
Island View Terminal	Quarterly
Van Reenen	As and when required
Pretoria West	Once-off/ as and when required
Elardus Park	Once-off/ as and when required
Meyerton	As and when required
Wilge	As and when required
Warden	As and when required
Villiers	As and when required
Bethlehem	As and when required
Duzi Pump Station	As and when required
Hilltop (PS 3) Pump Station	As and when required
Magdala	As and when required
Twini	As and when required
Mnambithi (PS 5)	As and when required

Monitoring frequency can change depending on the monitoring results.



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**ANNEXURE 2: SITES WITH MONITORING WELLS AND NUMBER OF MONITORING WELLS
PER SITE**

SITES	Number of Monitoring wells
Tarlton	8
Langlaagte	2
Alrode	19
Coalbrook	15
Jameson Park Terminal	11
Kendal	9
Witbank	4
Waltloo	7
Klerksdorp	3
Kroonstad	4
Secunda	4
Sasolburg	8
Howick	5
Hillcrest	2
Durban	3
Mngeni	2
Newcastle	4
Mooi River	2
Ladysmith	13
Airport	To be installed
Rustenburg	To be installed
Island View Terminal	To be installed
Meyerton	To be installed
Wilge	To be installed
Warden	To be installed
Duzi	To be installed
Villiers	To be installed
Hilltop (PS 3)	To be installed
Van Reenen	To be installed
Bethlehem	To be installed
Pretoria West	To be installed
Elardus Park	To be installed
Twini	To be installed
Mnambithi (PS 5)	To be installed
Fort Mistake	To be installed
Quagga	To be installed

**ANNEXURE 3: SITES WITH DRINKING WATER BOREHOLES**

SITES NAME
Tarlton
Meyerton
Wilge
Warden
Quagga
Fort Mistake
Mnambithi (PS 5)
Mooi River
Duzi
Hilltop (PS 3)

ANNEXURE 4: NUMBER OF SOIL SAMPLES THAT SHOULD BE TAKEN PER SITE

SITES	FREQUENCY
Tarlton	20
Langlaagte	6
Alrode	20
Coalbrook	15
Jameson Park Terminal	11
Kendal	15
Witbank	10
Waltloo	8
Klerksdorp	6
Kroonstad	10
Secunda	10
Sasolburg	15
Howick	10
Hillcrest	10
Durban	10
Mngeni	6
Newcastle	6
Mooi River	4
Quagga	4
Fort Mistake	4
Ladysmith	10
Airport	6
Rustenburg	6

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Island View Terminal	10
Van Reenen	4
Pretoria West	6
Elardus Park	6
Meyerton	4
Wilge	4
Warden	4
Villiers	4
Bethlehem	4
Duzi Pump Station	4
Hilltop (PS 3) Pump Station	4
Magdala	6
Twini	6
Mnambithi (PS 5)	6