Main Street
Creighton, 3263

P.O Box 62

Creighton 3263

Phone: +27 39 833 1038
Fax: +27 39 833 1179
Email: mailbox@ndz.gov.za

www.ndz.gov.za

A Better Place for ALL

ADDENDUM FOR APPOINTMENT OF GEOHYDROLOGICAL SPECIALIST FOR GROUNDWATER QUALITY MONITORING FOR WASTE DISPOSAL FACILITIES FOR A PERIOD OF 3 YEARS PWBS-B058/25/26

Date: 05/05/2026

This addendum serves to correct the incorrect information in the document:

- On the specification page we remove the information under specification.
- On the pricing schedule we correcting the project name

NB: See attached corrected information.

DESCRIPTION	BID NO	CLOSING DATE
APPOINTMENT OF GEOHYDROLOGICAL SPECIALIST FOR GROUNDWATER QUALITY MONITORING FOR WASTE DISPOSAL FACILITIES FOR A PERIOD OF 3 YEARS	PWBS-B058/25/26	13 May 2026 @2026

RECOMMENDED BY:

MISS N.HOLIWE
SCM MANAGER

APPROVED BY:

MR. NC Vezi
MUNICIPAL MANAGER

I acknowledge receipt of this Addendum No.1

Name:.....

Signature:.....

Date:.....

APPOINTMENT OF GEOHYDROLOGICAL SPECIALIST FOR GROUNDWATER QUALITY MONITORING FOR WASTE DISPOSAL FACILITIES FOR A PERIOD OF 3 YEARS

SPECIFICATION

1. Background

Public Works and Basic Services Department is responsible for the operation and management of solid waste disposal facilities and other waste management facilities within the municipal boundaries. Ground water monitoring programme has been established in response to licensing requirements and the need to continuously assess groundwater, surface water, and leachate impacts associated with operations on site.

2. Regulatory Requirements and Legislative Framework

The programme aligns with:

- Water Use License (Section 5.4)
- Minimum Requirements for Waste Disposal by Landfill
- Environment Conservation Act, 1989 (Act 73 of 1989)
- Water Act, 1956 (Act 54 of 1956)
- National Water Act, 1998 (Act 36 of 1998)

2.1 Monitoring Infrastructure

- Up-gradient monitoring borehole (background water quality)
- Down-gradient monitoring borehole (groundwater leaving the site)
- Boreholes must remain locked and accessible to the Licensing Authority

2.2 Monitoring Frequency

- Biannual monitoring for all Annexure 5 parameters

monthly monitoring triggered by increasing contaminant trends

2.3 Sample Analysis Standards

- All analysis must be done by a SANAS-accredited laboratory.
- Methods must align with SABS or other DWS-approved standards.
- Compliance must be assessed against GN R.991 of 18 May 1984.

3. Scope of Work

- 2 Groundwater monitoring boreholes
- 2 Surface water monitoring points
- 1 Leachate dam monitoring point.

3.1 Water Quality Sampling

Sampling will follow:

- ISO 5667-1 (Sampling program design)
- ISO 5667-3 (Sample handling and preservation)
- ISO 5667-11 (Groundwater sampling)
- DWAF Best Practice Guidelines (Series G3)

3.2 Field observations captured:

- Groundwater levels
- Flow behavior
- Weather and hydrological conditions
- Leachate characteristics
- pH, EC, TDS, DO, turbidity, temperature

4. Water Quality Parameters

Table: Detection (Biannual Routine Monitoring) – ref: MRWDL, 2nd Edition,1998 Parameter Group

Parameters

Indicator/ Routine

Sodium, Sulphate

Table: Investigative (Monthly if Triggered) – ref: MRWDL, 2nd Edition, 1998

Parameter Group Parameters Investigative

Ammonia, EC, Alkalinity, NH_4-N, Ca, pH, COD, Cl, K, Na, SO_4, TDS, Pb, Hg, Cd, Cr^{6+}, Cr (Total), B, Nitrate, Phenols, Cyanide

5. Reporting Requirements

Each report will include:

- Full laboratory tables
- Trend graphs
- Piper diagrams
- Water level graphs
- Spatial vector plots (if applicable)
- Comparison to SANS 241, DWS limits, and license limits
- Recommendations for corrective actions

Monthly reports (when triggered) submitted before the 15th.

6. Methodology

6.1 Field Work

- Mobilization and site preparation
- Borehole inspection and purging
- Sampling and preservation
- Chain-of-custody completion
- Transport to SANAS lab

6.2 Data Management

- Structured database capture
- Statistical interpretation
- Long-term trend analysis
- Compliance evaluation

Mr. S.V Mngadi
SENIOR MANAGER: PWBS

MR NC Vezi
MUNICIPAL MANAGER

MBD 3 - PRICING SCHEDULE

ITEM	DESCRIPTION	Hourly Rate
1.	Ground water sampling (purging method)	
2.	Surface water sampling (grab sampling)	
3.	Field measurements of all samples taken (ground and surface water)	
4.	Sample preservation for metal analysis	
5.	Transport of samples	
6.	Laboratory analysis according to the licence and DWS minimum requirements for monitoring of landfill sites	
7.	Reporting	
8.	Disbursements	
Sub Total		
Vat @ 15%		
Total		

NB: Please indicate below percentage increase for upcoming 2 years, and it must not exceed CPI

	Year 2	Year 3
Percent		