

6 JULY 2026

<u>ADDENDUM</u>	No. 01
<u>CONTRACT NUMBER:</u>	JW14060 RRR
<u>CONTRACT TITLE:</u>	NORTHERN WASTEWATER TREATMENT WORKS: DEWATERING BUILDING BELT PRESS REPLACEMENT AND ASSOCIATED ANCILLARIES.
<u>SUBJECT</u>	Addendum 1
<u>Date</u>	06 July 2026
<u>Sender</u>	Nthabiseng Matabane email -Nthabiseng.matabane@jwater.co.za

Tenderers are required to incorporate the following and return the Addendum:

- Amendments to the tender document (Scope of Works)

Volume 2A Part 3 – Scope of Works

- **Clause PSX2.2.4 Specific design, performance and operational parameters on Page P.175**

In the 5th paragraph, replace the words “..... not less than 10 no. dewatering pressure rollers” with “..... not less than 14 no. dewatering pressure rollers”

- Extension of closing date from 10th July 2026 to 31 July 2026 at 10:30AM

Yours faithfully


07/07/2026
Mabu Manaka
General Manager: Supply Chain Management

Addendum Received

Name of Tenderer:.....

Signatory:.....

Signature:.....

Date:.....

PSX2.2.3 Battery Limits

The battery limits for the Dewatering filter Belt Press shall be as follows:

- Existing equipment associated with dewatering plant; and
- The existing conveyor belts within the dewatering building boundaries.

PSX2.2.4 Specific design, performance and operational parameters

The equipment shall be designed for a minimum safe and satisfactory operation acceptable life expectancy of 15 years under ambient conditions prevailing on site.

Each dewatering filter Belt Press shall be able to operate with a sludge mass feed rate range of 600 to 900 kg DS/hr. The filter Belt Press shall achieve a minimum final solids concentration of the sludge cake of $\pm 18\%$ by mass with a minimum of 95% capture rate and less than 200 mg/L of suspended solids in the filtrate.

Flocculation mixing design shall ensure the effective mixing of the sludge and polyelectrolyte and ensure that there is sufficient time to achieve the designed flocculation before feeding the sludge onto the filter belt. The filter Belt Press unit shall have an effective width of up to 2.2 m.

Sludge ploughs shall be strategically positioned on this section to assist with the removal of excess liquid, drainage of filtrate from the flocculated sludge and ensure that no blinding of the belts occurs due to sludge movement. The Sludge ploughs shall ensure a uniform distribution of sludge across the working width of the belt. Sludge ploughs shall be adjustable safely without the need to stop the machine.

The pressure dewatering section shall comprise a set of not less than 14 no. dewatering pressure rollers of adequate size to achieve the required degree of dewatering with the pressure being evenly distributed on the sludge to prevent it from being squeezed through or out of the sides of the filter cloth. Rollers shall be of rigid design to prevent uneven pressure and cake distribution due to deflection of the rollers. The minimum diameter of the pressure rollers shall be 215mm and with a thickness of 7mm. The belt press roller design and positioning shall be such that rewetting of the sludge is prevented through effective continuous release of filtrate from the belt press.

The pressure rollers shall be designed using a minimum design load of 15 N per linear millimetre with a maximum deflection of less than 1.5mm for the entire length of the roller between the end bearing supports.

The spray nozzles shall be specifically designed for filter belt washing purpose and the spray pattern design shall be of overlapping to avoid blind spots. The wash water system shall be designed for a pressure range of 6 - 9 Bar with maximum water consumption of ± 15 m³/hr. The belt filter nozzle header shall be accessible for inspection and maintenance purposes.

A scraper mechanism shall be provided for the continuous removal of sludge cake from the filter belt. Scrapers shall be positioned in such a way that it does not damage the filter belt or cause excessive wear. The scraper blade shall allow for adjustment to accommodate operational wear and the blade shall be constructed from abrasion-resistant material. The Belt Press roller design and positioning shall be such that

Employer:		Contractor:	
Witness:		Witness:	