

SOL PLAATJE LOCAL MUNICIPALITY

Planned Water Supply Interruption 04 May to 07 May 2023

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Background

Work to be undertaken is part of activities on the BFI Funded programme. In order to undertake upgrades and improvements necessary on the main supply pipelines, an assessment of visible and invisible leaks is required. Assessment of invisible leaks will be done using the “Smart-ball Technology.

The main purpose of the scheduled water interruption is to effect repairs to visible leaks, and to replace dysfunctional valves on the **965mm and 600mm** bulk water pipelines.

The interruption will also present an opportunity to do repair of leaks on the reticulation network, and to clean clarifiers at Riverton (floods effect).

Repair of leaks at Newton Reservoir Complex will also be attended to during the scheduled interruption.

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SCOPE OF WORKS (SITES AND ACTIVITIES)

Main Contractor for Main Works: Bigen Group, with their Sub-contractors

Bulk Pipe line:

Replacement of dysfunctional gate valves for air regulating valves (6 sites)

Retrieval of “misplaced smart-ball” in Riverton

Repair or replacement of dysfunctional butterfly valves at Mid-station Cross-Connection

Replacement of a leaking 600mm Isolation, before Riverton and Mid-station

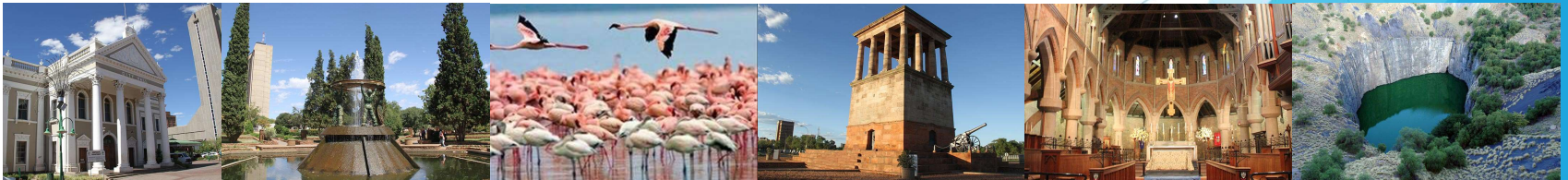
Newton Reservoir Complex:

Leaks repairs at Newton Reservoir Complex

Riverton WPW:

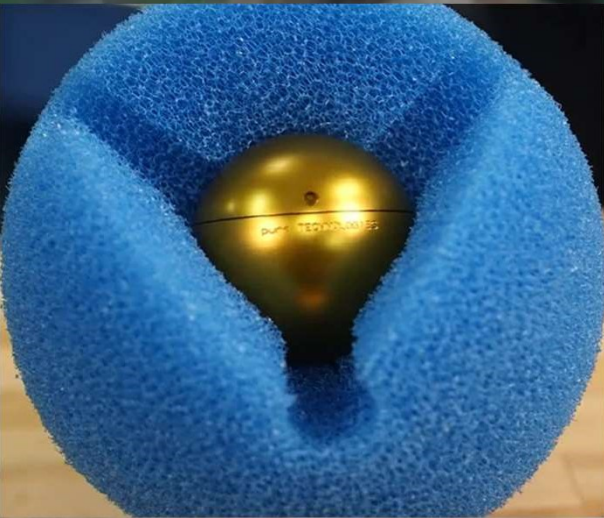
- ▶ Repairs on 600 pipe, next to Pump Station
- ▶ *Repair leak on manifold, of new pump station*
 - ▶ *Cleaning of Clarifier #5 and 6*
- ▶ *Waterworks Teams:*
 - ▶ *Replacement of 14 isolating valves in the network*
 - ▶ *Repairs of major leaks in the network*

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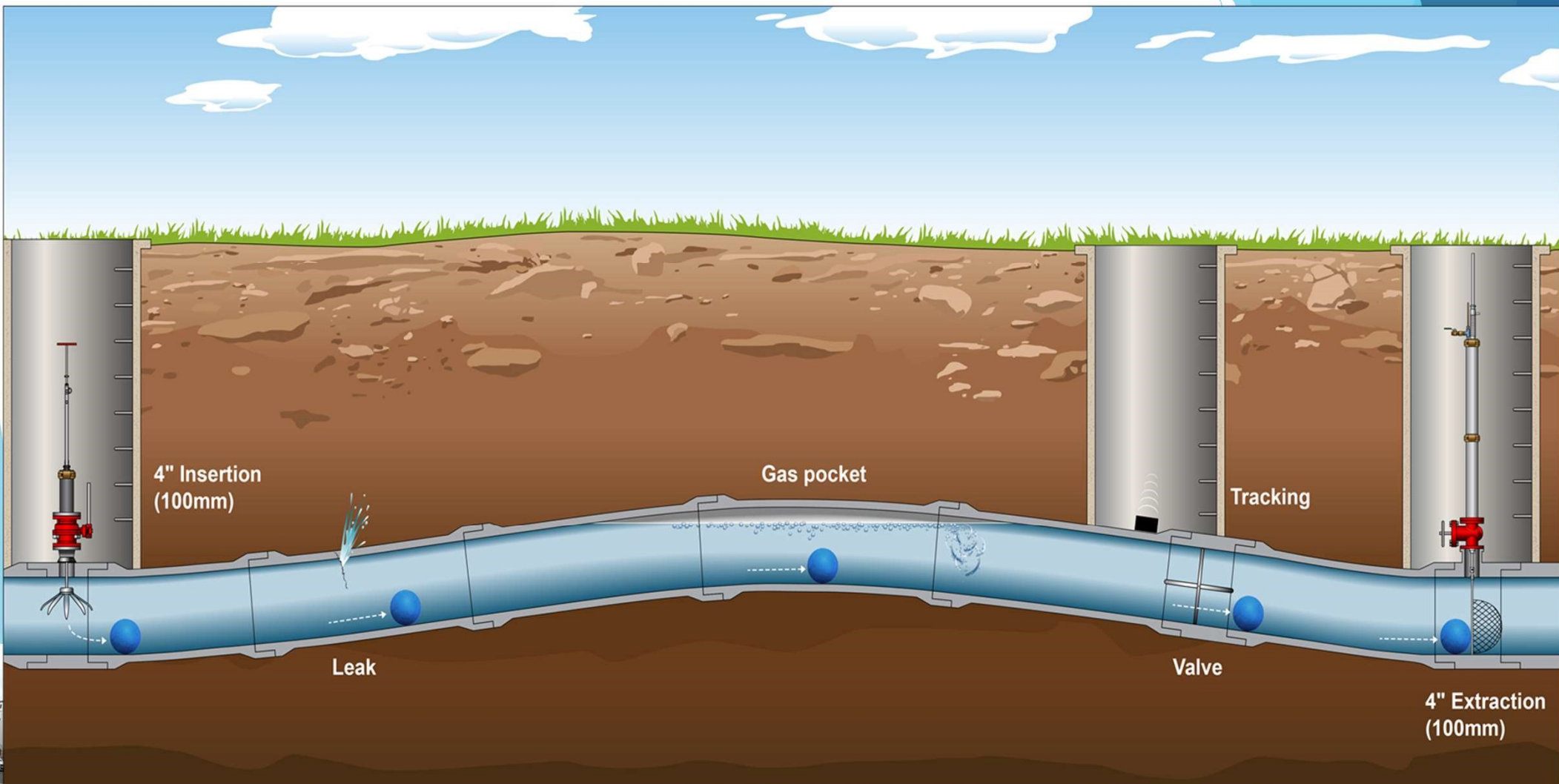




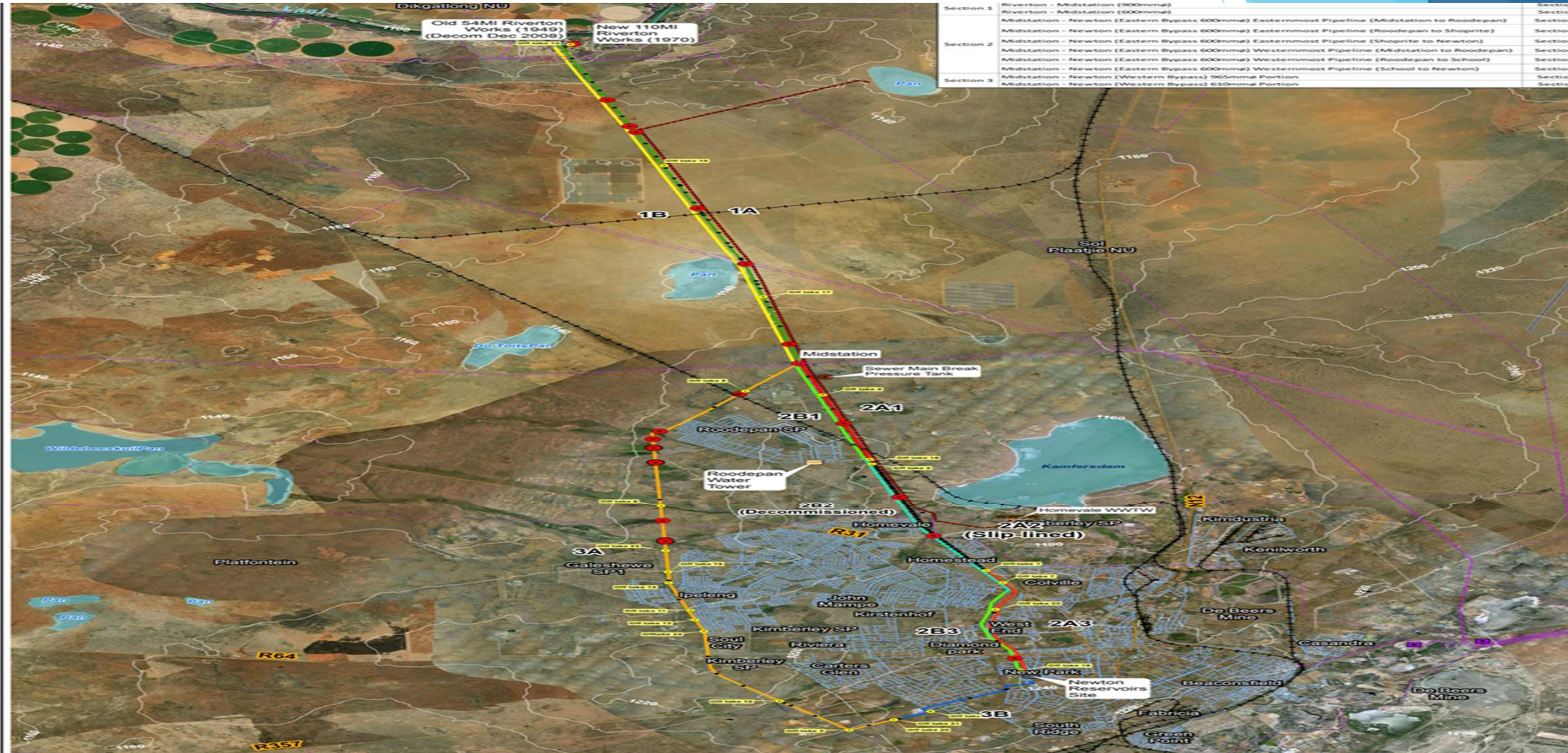
Xylem - Smart-Ball Equipment



How it is Used in a Pipeline

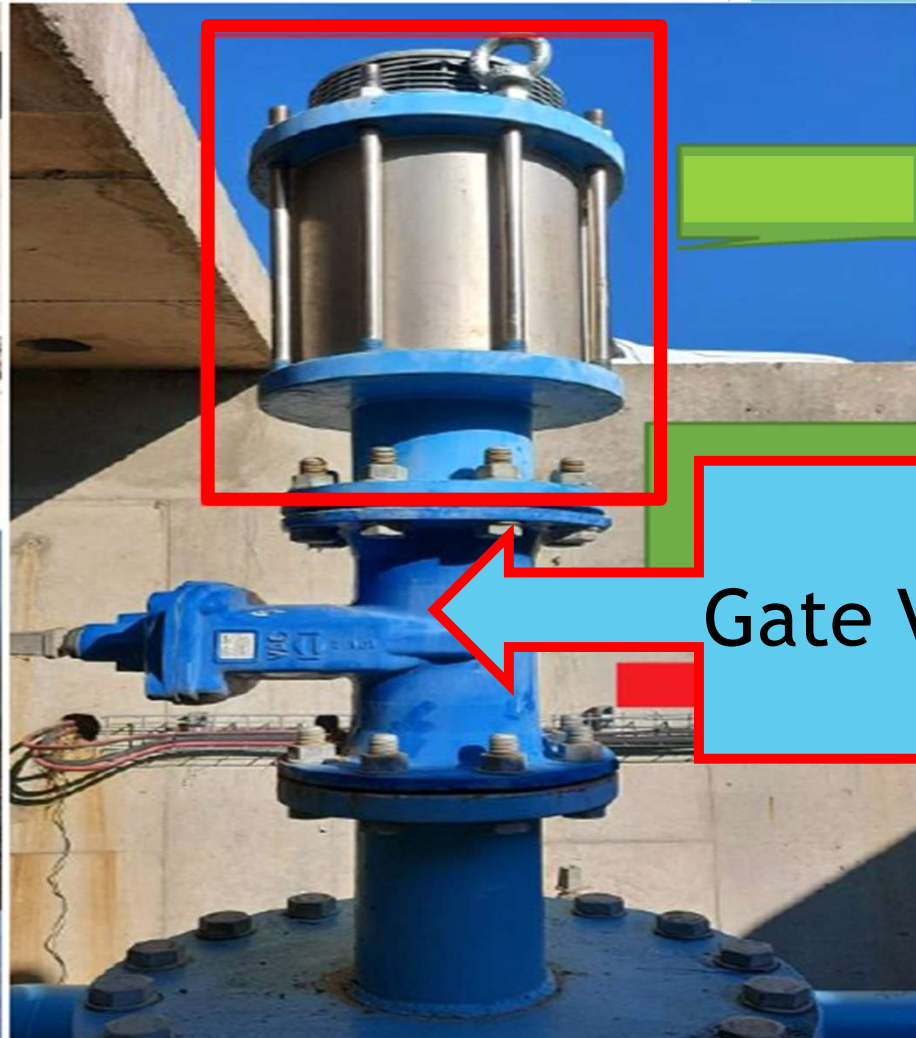


Insertion and Extraction Points (red dots) on Bulk Pipelines



Air Valve and Gate Valve

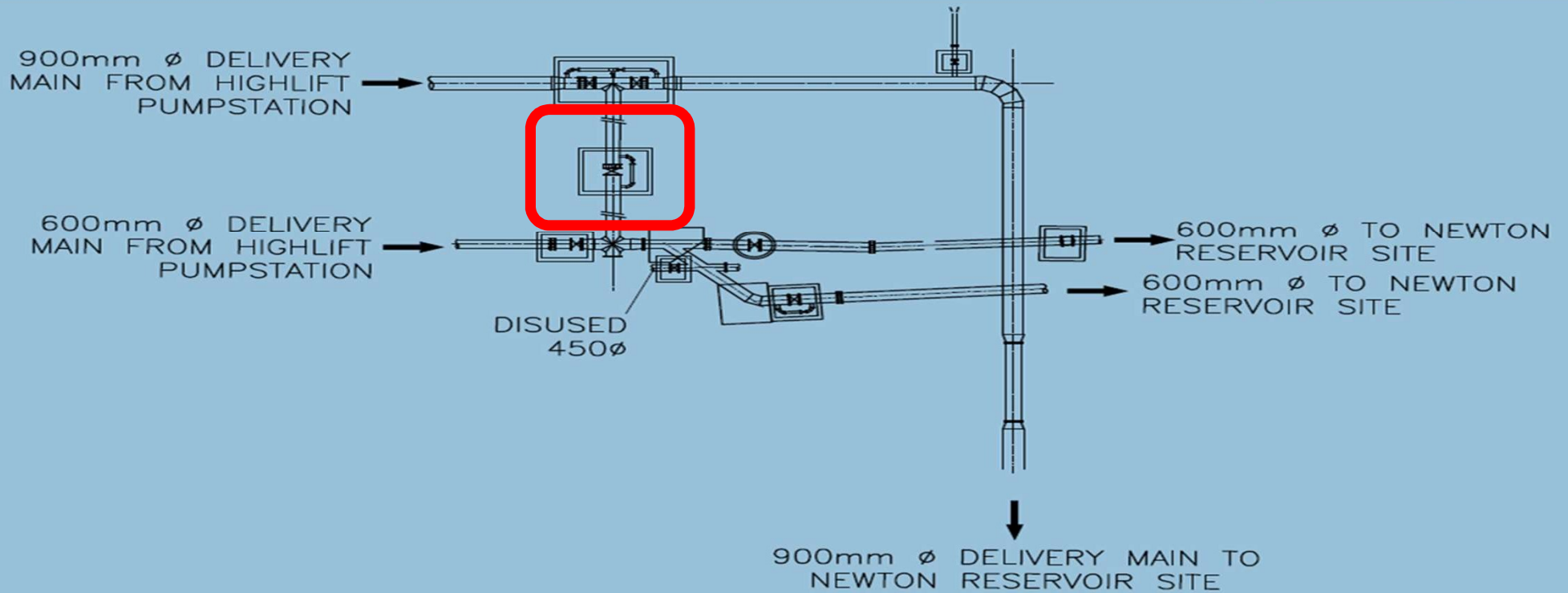
Valve Chamber Set-up



Air valve

Gate Valve

Mid-Station Cross-Connection Valve (red dots)



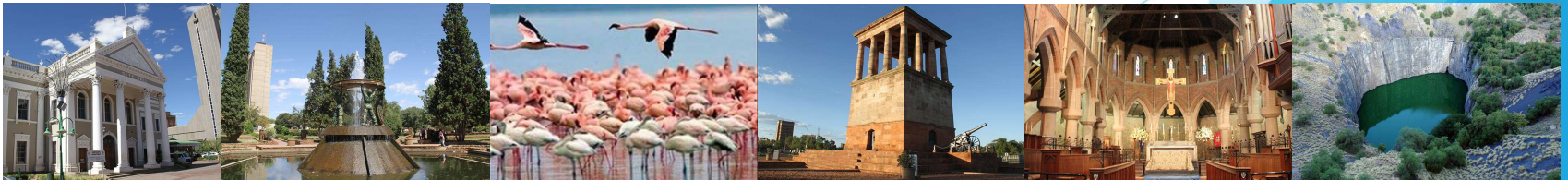
PIPEWORK DETAIL — MIDSTATION (NOT TO SCALE)



Water Supply Interruption Program

- ▶ **Thursday, 04th May 2023 at 6PM:** Switch off Riverton, Newton and Drain the system empty (12-24 hours).
- ▶ **Friday to Sunday (05th to 07th May 2023):** Commence with repair works at various sites (24-30 hours)
- ▶ **Sunday 07th May 2023 at 06:00:** Completed repairs, and recommission (12-18 hours), and start refilling the line,
- ▶
- ▶ **Water will be restored on Sunday evening 07th May 2023, at 18:00.**

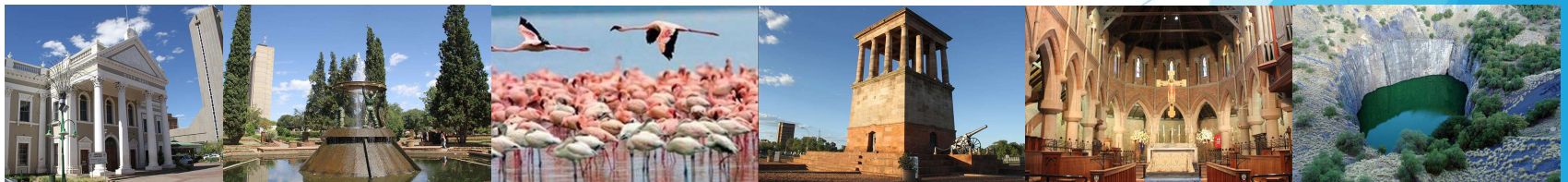
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Emergency Water Supply Arrangements

- 37 Water Tankers (mainly flat-beds equipped with Jojo tanks) will be allocated at specific sites, covering all areas or zones
- 5 Water Tankers dedicated to funerals, Old-Age Homes, hostels and hospitals as always.
- There are approximately 200 Jojo tanks in informal settlements: Will be filled as always.
- Water points for containers will be available:
 - **Newton Reservoir** area (Waterworks Street),
 - Up street of **Reservoir Road** (New park)
 - **Emergency Services** site (Civic Centre)
 - **Police Stations** in Roodepan, Galeshewe and Phakamile Mabija Street
- Coordinators, with contact numbers, shall be communicated

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Risks

Risk	Mitigation
Levels at Newton Reservoir	The four reservoirs must be closed at 12ft, minimum, before the interruption can commence.
Procurement	Work will not be able to commence without official orders.
Weather	Work will not be able to commence should any inclement weather arise.
Access to Works Sites, Newton and Riverton	No public entry shall be allowed in ALL WORK SITES, including Newton Reservoir Complex and Riverton WPW. Only MMC Councillors will be allowed on site. Compliance to OHS regulations, by all, is non-negotiable.

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Tasks and Responsible persons

1. Confirmation of internal work sites/areas: *Zughdi, Marcel and Thomas.*
2. Confirmation the number and availability of Flat Beds Trucks: *Marcel Arthur*
3. Available number of Jojo tanks and Tankers, Route Map for Water Supply: *David Leeuw*
5. Preparing and finalising Deviation appointments, rental of mobile pump units, Confirmation of external contractor (s), and scope of works: *Marcel Arthur*
6. Preparation of Access to Work sites (roads, etc): *Tebogo/Hope*
7. HIRA requirements, to ensure Safety during the Operation: *Mendi*
8. Communication Plan at all stages: *Thoko*
9. Arrangements of meals for SPLM staff & MayCo Members: *Thandi*
10. Arrangement, communication and implementation of Road Closures: *Tebogo/Hope*
11. Engagement of SAPS, SANDF, Security for emergency preparedness: *Ntanti Siphiri*

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Communication Plan

- **ALL** communication will be done by the Communications section, pending approval by JOC and Municipal Manager,
- Daily and continuous public announcements will be made via Radio, Newspapers, social media and engagements with business forums,
- Joint Operations Committee (JOC) will be established, starting from Friday 05th May 2023 at 14:00, and will meet at least twice daily until the operation is completed.
- JOC consists of Technical team leaders, Emergency Services, Communications, Security, Petitions Officer and SAPS,
- All technical communication shall be provided by Mr Z. Adikary.
- MM and ED: Infrastructure and Services shall form part of the JOC.

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THE END

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