

## BROMPTON GAS WORKS

The former Brompton Gasworks site was a catalyst for the growth of Adelaide, supplying town gas for industrial and domestic uses from 1863 until the early 1960s. The gasworks represents an integral part of the Adelaide's industrial history and character and is the only surviving former 19<sup>th</sup> and early 20<sup>th</sup> century gasworks in South Australia.



Retort House No.4 – Horizontal underground retorts re-discovered in 2019

## Contamination of the site

Contamination at the gasworks is broadly divided into: **free tar and tar impacted soils** located within and adjacent to former gasholders, tar wells, tar tanks, retort houses, gas pipes; **general gasworks solid waste** (coke, ash, clinker, spent oxides) which was used to raise the site and fill adjacent former clay pits on and surrounding the site (some of which are up to 12 m deep); **soil vapour contamination** which is generally associated with shallow tar-impacted soils; and **groundwater contamination** associated with free phase and residual NAPL and surrounding dissolved contamination.

Dissolved groundwater contamination is present beyond the boundaries of the site, is associated with the site and off-site sources. Groundwater contamination is present in three aquifers present at depths ranging from approximately 12 – 40 m below ground level.

## Development

In partnership with Renewal SA, MAB will transform and activate the former gasworks to become a vibrant urban village that celebrates its historical identity. The development is set to deliver a master planned village with townhouses, apartments, hotel, commercial hub and a commitment to provide more than 15% affordable housing.

At the heart of the new community is the Heritage Precinct, a place which will see the restoration and reuse of former gasworks structures for hospitality purposes. More than 25% of the site will be dedicated to large and interconnected public spaces including parks, gardens and play spaces.

The development will be a gas-free precinct. In a South Australian first, all power across the project will be delivered via 100% renewable energy and will achieve a 6 Star Green Star community rating in accordance with the Green Building Council of Australia's, Green Star – Communities Framework.



An image of the proposed development.

## Remediation works

**Soil remediation** consists of: removal of primary sources (e.g. gasholders, tar wells, tar tanks), off-site disposal of gross tar impacted soils, on-site treatment and retention of minor tar-impacted, consolidation and management of remaining contaminated soils. **Groundwater remediation** includes NAPL recovery and surfactant-enhanced aquifer remediation (SEAR). **Vapour mitigation** will be implemented if required.

Remediation of the site is being completed by EnviroPacific Services (EPS). The remediation and validation consultant is Senversa and the auditor is BlueSphere Environmental.



Removal of tar-impacted-impacted soil from Gasholder no.1 from under OCE

## Tour

The site will be led by MAB and Senversa and include viewing of the remaining horizontal retorts, chimney and an interactive experience allowing participants to view the historical structures and prior remedial activities through an app.

