HUNTER WATER SECTION s170 REGISTER



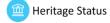
ITEM NAME:

Four Mile Creek 2 Reservoir

Contents:













Management





ITEM DETAILS

Item Name Four Mile Creek 2 Reservoir

Other / Former Names Buttai No. 2 Reservoir

NSW SHI No. 3630005

GID 400438

Plant No. WR-FMC-002

Local Government Area Cessnock

Lot and DP Lot 1 DP 724270, Lot 1 DP 814843, Lot 1217 DP 1157771

Address John Renshaw Drive, Black Hill NSW 2323

Curtilage The curtilage of this asset is defined by its physical configuration and does not correspond to legal

allotment boundaries.



View of the structure and roof of the Reservoir



Asset location and curtilage (red boundary) (refer to Figure 1 for additional detail)













HISTORICAL OVERVIEW



Water storage **Current Use** N/A **Former Use** Hunter District Water Supply and Sewerage Board **Designer / Builder** In 1929 Buttai Reservoir (Four Mile Creek 1) was extended to hold a further 3,500,000 gallons of **Historical Notes** water in order to obviate shortages of water supply to Cessnock. Completed and made available for the summer of 1928-29, the final capacity of the Buttai Reservoirs as a whole was 3,514,000 gallons. In 1947-48 a scheme to amplify the water distribution was investigated, which included the augmentation of supply from Buttai Reservoir to Neath Pumping Station. In 1956 a 24-inch pipeline was laid for 2 ½ miles between Stoney Pinch and Buttai Reservoirs to improve supply. In 1960-61 a 20-inch cement-lined cast iron water main was completed between Buttai Reservoir and Heddon Greta, replacing an 18-inch wood stave main. In the late 1990s, it was decided to roof the remaining open reservoirs under the control of the Hunter Water Corporation. By June 1999 construction on the roof of Buttai No. 2 Reservoir had commenced.

HERITAGE STATUS



Listing Details S170 Heritage and Conservation Register Local heritage listing State heritage listing Futurepast Heritage Consulting Pty Ltd, 2012, Buttai Reservoirs Site Conservation **Conservation Management** Management Plan, prepared for Hunter Water Corporation **Plan** N/A **Heritage Asset Action Plan** AHIMS search undertaken on 20 October 2022. No sites were registered in or within 50 metres of **Aboriginal Sites Registered** the relevant Lot and DP. within the Site Not assessed. **Historical Archaeological**

HERITAGE SIGNIFICANCE

Potential



Level of Significance Local **Statement of Significance** Buttai Reservoir No. 2 is part of the 1920s expansion to the Walka system, following the commissioning of Chichester Dam. The Reservoir was built adjoining Reservoir No. 1 and represents an evolution in reservoir construction technique and a continuation of use of the Buttai Reservoir site. **NSW SHR Criteria** (X) a) Historical □ b) Associative c) Aesthetic / Technical (d) Social Research Potential (yield new information) ∫
 ∫ Rare Representative **Significant Elements** Overall form and shape.











DESCRIPTION The reservoir is set within an area of bushland adjacent to a mine facility. The mine operations Setting are screened by the bushland and are not visible from the reservoir. Much of the landform immediately surrounding the reservoir has been disturbed by mounding soil around the reservoir structure, resulting in a raised mound. A later addition, Four Mile Creek No. 2 (Buttai No. 2) Reservoir forms an L shape around the Four **External Appearance** Mile Creek No. 1 (Buttai No. 1) Reservoir and is made of concrete with splayed sides. A later kliplok roof has been added to the Reservoir with access hatches. Pipes supported on concrete footings extend through the Reservoir roof and to the east. The two structures are connected internally. N/A (internal access not possible). **Internal Appearance** Good. **Overall Condition Moveable Heritage Objects** None identified. **MANAGEMENT** Minor or inconsequential impacts: Anything other than routine repair and maintenance must be **Approval and Assessment** discussed with the Environment Team to determine the level of heritage assessment required. Requirements More than minor or inconsequential impacts: As above. Additionally, consultation with the relevant local council is required. Demolition or removal from the register requires consultation with Heritage NSW and archival recording. **General / Ongoing** Changes within the defined curtilage should be preceded by the appropriate level of heritage **Management** assessment and approval. Advice and/or confirmation should be sought from the Environment Team prior to undertaking any works. Maintain overall form, shape and scale of the Reservoir. Changes to fabric may be supportable if no feasible alternative is available to ensure ongoing





operation and/or safety.

facilitate ongoing operation.

single listing on the s170 Register.

requires revision as soon as possible.





Clean off concrete to prevent deterioration of the fabric.





Replacement/removal of redundant or failing elements or equipment is acceptable to

supportable. Any replacements must be appropriate/sympathetic.

Removal of non-significant elements (such as contemporary services, roof sheeting, etc.) is

Consider the amalgamation of the Four Mile Creek 1 and Four Mile Creek 2 assets into a

Undertake review of and update the applicable CMP every 5-7 years. The 2012 CMP

The policies contained within the CMP should be followed to conserve and manage the

heritage values of the asset in line with the operational needs of Hunter Water.

Priority Conservation Works





Image 1: Access hatch to roof of Reservoir

Image 2: Concrete form and later kliplok roof





Image 3: Concrete form and later kliplok roof

Image 4: Pipework connected to the Reservoir











REFERENCES



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- John W Armstrong 1967, Pipelines and People. The History of the Hunter District Water Board Newcastle, New South Wales. Publisher: The Hunter District Water Board, Newcastle.
- Mal Hindley 1983, 'From Weirs, Dams and Sand', in Shaping the Hunter. Publisher: The Newcastle Division of the Institute of Engineers Australia, Newcastle.











FIGURE 1

S170 Review - Heritage Curtilages

Legend

Road

— Railway

Lot Boundary

Heritage Curtilages

Four Mile Creek 2 Reservoir



Scale 1:2,500 at A4 GDA 1994 MGA Zone 56

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